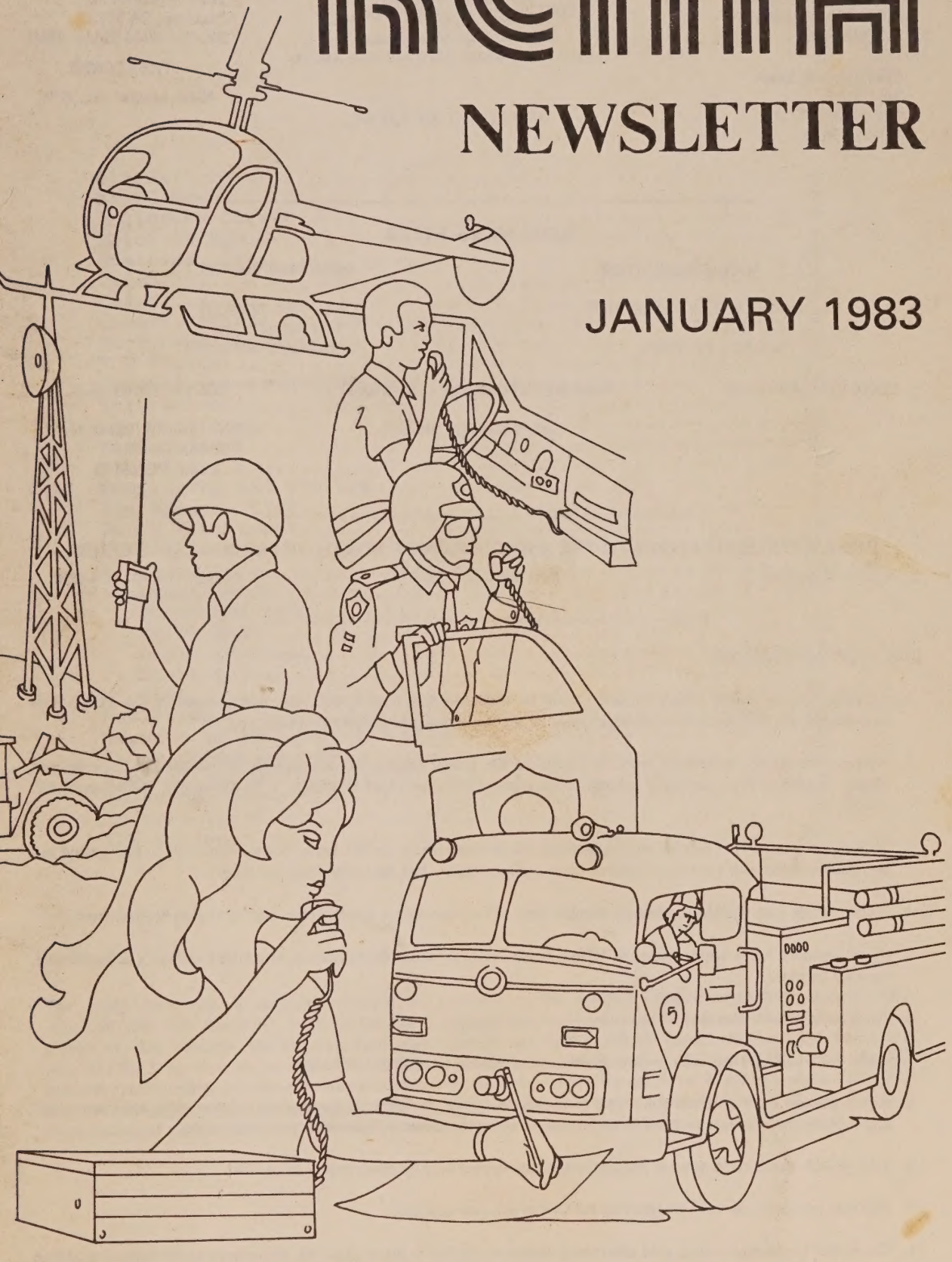
RCMA

NEWSLETTER

JANUARY 1983



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FOR YOUR INFORMATION:

1. All club business, unless otherwise noted, must be addressed to R.C.M.A., P.O. Box 4563, Anaheim, CA 92803. This includes matters that relate to renewals, changes of address, newsletter delivery problems, etc.

2. Input to the RCMA Newsletter must be mailed to the proper editors, whose addresses are included in the individual column headlines. If no particular column seems appropriate, send input to RCMA, 1 West Potomac, Williamsport, MD 21795.

3. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address on it; mail to RCMA, P.O. Box 408, Earp, CA 92242.

4. Please include your RCMA membership number with all correspondence to newsletter editors or club headquarters.

5. If you require a reply when writing to RCMA headquarters or to one of the editors, you MUST enclose a self-addressed, stamped envelope.

6. Please write on only one side of the paper.

7. Please don't combine in one letter several items that should go to different addresses.

8. If you want to type what you submit to the newsletter, please don't exceed a seven-inch column width and please single space. Doing this may save an editor from having to retype the material. Please don't use script type.

9. Your RCMA membership number and expiration date appear on your newsletter mailing label.

10. You may join or renew your membership for ONLY one year at a time.

11. The RCMA Newsletter accepts paid advertising. If you would like to place a paid ad, please write to the following address for our advertising guidelines: RCMA Newsletter, P.O. Box 13602, St. Louis, MO 63138

RCMA NEWSLETTER
Issue 82 January 1983
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The RCMA Newsletter is published monthly by members of the RADIO COMMUNICATIONS MONITORING ASSOCIATION, P.O. Box 4563, Anaheim, CA 92803. Subscription rate/membership fee is $16.50 for U.S. residents. For persons in other countries, the following rates apply: Canada and Mexico—$18.50; Europe—$20.00, South Pacific and Asia—$21.50. These dues are payable in U.S. funds and are subject to change. Information contained herein is obtained primarily from members and does not necessarily present the position or reflect the opinion of RCMA as a whole. The RCMA does not necessarily recommend or endorse products or services advertised herein. The publication is copyrighted © . Reproduction of any material in this newsletter is prohibited without prior written consent.

** Calendar **

Send notices of upcoming events for the Calendar section to:
John Clark, RCMA, P.O. Box 4563, Anaheim, CA 92803.
Please send notices well in advance of the Newsletter deadline.

Greater L.A. Area R.C.M.A. Eric Christensen CALA045 Presiding
--Meetings tentatively scheduled each third Friday of the month--

December 17 FRIDAY Meeting at Mercury Savings and Loan, Valley View and Lincoln, Buena Park, Ca 8:00PM. 2nd Floor. Elevator in back.

No Meeting Scheduled. Merry XMAS

January 21 FRIDAY 8 P.M. Tour

NET 6 Fire Communications Center Huntington Beach
18301 Gothard St. (Gothard parallels Golden West and Beach. Thomas Broths Orange County Map page 26 2-B)
Talkin channels 145.460-600, 223.98-1600, 449.875-5000

February 18 FRIDAY 8 P.M. Tour

CALTRANS Operations Center.
120 S. Spring Street Los Angeles.
Talkin channel 144.330 the Gordo channel

March 18 FRIDAY Meeting at Mercury Savings and Loan, Valley View and Lincoln, Buena Park, Ca 8:00PM. 2nd Floor. Elevator in back.

Guest Speaker Gene Hughes CALA006 Editor Police Call
The man whose frequency lists are more accurate than the FCCs

R.C.M.A. Chicago

Contact Edward Robert Sirovy IL-004 312 969 2856
311 S. Williams Street, Westmont, Il 60559

Meetings: NANCINI'S Resturant 5555 St Charles Road, Berkeley, Il
two blocks east of St Charles Road exit from Eisenhouer Expressway Extention I-290 (phone 312 544 7277)

Visitors are welcome but please confirm the date in advance.

Saturday	January	15, 1983	1:00 PM
Saturday	March	5, 1983	1:00 PM
Saturday	April	23, 1983	1:00 PM
Saturday	June	11, 1983	1:00 PM
Saturday	July	30, 1983	1:00 PM
Sunday	August	28, 1983	Picnic / Field exercise
(write or phone for details about this fun day)			
Saturday	September	24, 1983	1:00 PM
Saturday	November	12, 1983	1:00 PM

A SASE on file assures notification of tours and other item which may be scheduled on short notice.

R.C.M.A. Connecticut Chapter

Contact Bill Moore CT 038 203-223-0840
950 Farmington Ave, New Britain, CT 06051

Southern New England Scanners Club is forming

Contact Maurice Dandeneau RI 017 401-828-1641
P.O. Box 7052, Warwick, RI 02887

NEED BACK ISSUES OF THE RCMA NEWSLETTER?

Lots (Months/Year)	No. of Issues	Price
Sept 75 - June/July 76 (No Oct or Nov published)	7	$2.00
Aug - Dec 76 (No Oct published)	4	$3.00
Jan - June 77	6	$4.00
July - Dec 77	6	$4.00
Jan - June 78	6	$5.00
July - Dec 78	6	$5.00
Jan - June 79	6	$6.00
July - Dec 79	6	$6.00

1980-82 back issues are now available at $1.50 per copy.

The following categories of postal rates are new. Please read carefully.

Order Total	Include This Amount of Postage
$ 1.50 - $ 5	$1.00
$ 5.50 - $10	$2.00
$10.50 - $15	$3.00
$15.50 - $25	$4.00
$25.50 - $35	$5.00
Over $35	$6.00

THOUGHT waves

Ginny Slick, RCMA Assistant Editor, 1 West Potomic, Williamsport, MD 21795

I'm sending the warmest greetings for a happy and prosperous New Year to all the membership and I'm turning my thought waves toward those dreaded resolutions we all tend to make at this time of year. The thoughts which are developed here have been prompted by two letters that I received. The first is from Robert Rotella, a member in Morristown, N.J., who sent me a news article from the New York Times. I would like to quote from that article, which is concerned with the recent Tylenol contamination case:

"The authorities agree that the death toll could have been much higher with out the fortunate independent detective work of two suburban Chicago firefighters, Phillip Cappitelli of Arlington Heights and Richard Keyworth of adjacent Elk Grove Village. They are both arson investigators and friends who monitor police radio in their homes.

Hearing reports of unexplained deaths in their respective towns, they compared notes and checked the separate reports from paramedics at the scene. It is standard procedure for ambulance workers to ask witnesses what victims have recently eaten to help determine treatment. In both town's poison cases Wednesday the reports said victims had just taken Tylenol capsules. But the patients displayed symptoms of heart failure and doctors did not know of the other similar cases until the two off-duty firefighters alerted superiors."

This article epitomizes the responsible scanner listener. It is proof that good things can result from the interest in public safety shown by those who share this hobby. Because I believe that most members of our club are cut from the same cloth, I was especially glad to hear from the next member, Matt A. Peskin (PA-016), who is also executive Director of the National Association of Town Watch, Inc., a non-profit organization comprised of volunteer 'crime watch' groups and local law enforcement representatives.

Mr. Peskin states that most of the members are quite similar to those who belong to RCMA- they are public safety minded and have genuine concerns for their community. The hobby of radio monitoring goes hand in hand with the crime watch effort. If any of you out there would like to resolve to put your listening to work, so to speak, you might want to contact Mr. Peskin for more information. His address is: P.O.Box 769, Havertown, PA, 19083. NATW publishes a paper titled New Spirit which gives helpful tips on Crime Prevention and news on the many chapters of the Association. Especially now when the President is asking for help from the private sector, NATW seems to have begun at a propitious time. If this project seems to appeal to you, Write Mr. Peskin and have an extra glass of bubbly for the new year begun with this responsible deed!

This month has brought me the greatest amount of mail since I have been writing this column. I hope this bodes good for the rest of 1983, because it has made Your Thoughts and Thought Waves more reflective of you....not me. Thank you, and keep those cards and letters coming.....I love 'em!!

Happy Hunting,

Ginny

YOUR THOUGHTS

1 West Potomac, Williamsport, MD 21795

To the Editor:

Your October column prompted me to write. Believe it or not, I'm not offering to edit a column....I'm offering some input! I want to say first of all that I think the newsletter is good. The following ideas and thoughts represent how I think it could be improved:

1. More product reviews. Only the "hot" new products such as the BC-100 seem to get reviewed. I'd like to see some reviews of accessories such as long play cassette recorders.
2. More project articles. I'd prefer simple, low-cost projects.

I have two suggestions that might help our members:

1. For those of you who write notes or keep a personal index on the front cover, you might try purchasing some large stick-on labels to put over the illustration.
2. If for some reason you need to get to a certain frequency rapidly, it might be to your advantage (especially if you're a BC-250 owner) to enter that frequency into both the upper and lower search limits. When you press either up or down search, you have the wanted frequency. I don't know about the application with other scanners, but it is useful with the 250.

I hope that you and the members will find these suggestions helpful and I wish you all good listening!

Brent Basinger (CA-SB016)

To the Editor:

I'm a new member of RCMA, and having just received the October issue, I feel compelled to send some thoughts. I have great expectations for what I read, primarily because I don't know of any local scanner types with whom to share info.

I'm interested in more info on the various subjects/ columns, instead of the editors rambling on. I realize that this means all members must contribute. I hope all editors will continue to stress this. Other than that, I am excited about receiving this magazine, and I hope to contribute something, and to learn a few things.

Jeff Shinn (ID-010)

To the Editor:

In response to the October Your Thoughts column, I have put down the following opinions and I hope that they will be constructive and thought provoking.

I feel that many of our members are reticent to submit material because they feel that their input is not informative or that there is some other member who has more and better information.

Other members, like myself, can't type worth a damn, or feel that all input must be "print"ready....therefore they don't submit their input or write to various editors. For whatever reason, some editors have shut the door on many inputs because they adhere to a "print ready" submission exclusively and discard handwritten material which is certainly valid input if it is reasonably legible. Perhaps the editor will have to assign priorities to his material and he may have to make time to type up a summary of the handwritten data, but if it is valid data, it should see the light of publication.

I don't think that our members are locked into one interest to the exclusion of all others; therefore there are times when all the material in a given newsletter is valid for a majority of our members.

I also think that we need more articles on equipment, its use, enhancement and modification. Computers are now "in" and I am sure that many members have developed programs to store data which they might be willing to share with the general membership, thereby stirring interest.

In the near future more of our members will have terminals and will be able to "talk" to each other via the computer, sharing their information directly. If the newsletter is to remain viable, it might have to take on a new format. We should not allow the newsletter to die, but to grow in new information which can be disseminated between members. We should continue to move in the direction of progress in our hobby.

Good Listening,
Gardner Lorimer (NY-975)

ASSOCIATION OF NORTH AMERICAN RADIO CLUBS

NEWS HIGHLIGHTS

ANARC is a federation of the most responsible, well established radio listening clubs in North America. RCMA attained Full Member status in ANARC in 1977. For a list of the ANARC Member and Associate Member clubs send a self-addressed, stamped business size envelope with your request to the address below.

For an annual subscription to the ANARC Newsletter, send $5 to:
Joe Barr, 1500 Bunbury Drive, Whittier, CA 90601. ($8 overseas subscription.)

ANARC Convention 1983

July 15,16,17,18 1983 Westpark-Best Western Hotel
Rosslyn, Arlington, VA

The hotel is located accross from D.C.'s Georgetown, and is directly on the Metro line. Rates will be $45.00 per night, single, or $22.50 each for a double room. For more information send a SASE to WADXA, 606 Forest Glen Road, Silver Springs, Maryland, 20901, U.S.A.

Aircraft

Send private, commercial, firefighting and law enforcement aircraft frequencies of interest in the 108-136 MHz range and frequencies in other bands above 30 MHz associated with airports and aircraft plus questions, articles and tips related to aircraft monitoring to:

AIRCRAFT - FROM A PILOTS POINT OF VIEW

By: Capt. Bill Mauldin

Greetings to all! I told Carol Ruth that I would fill in the space this month while the new Aviation Editor is being selected. I hope some of you will enjoy the selected frequencies listed at the end of this introduction.

I have been flying as an airline pilot for the past 18 years. Probably the most often asked question I get is... "Can I use my Bearcat 100 on an airliner?" The reply is not a simple one. It depends on which airline you are riding AND on the pilot in command. FAR (Federal Air Regulation) 91.19 was changed a short time ago to permit the operation of portable radios if certain conditions are met. Rather than have me write a page on this, let me comment that it is possible under the recent FAR changes - providing you meet the requirements of the changed FAR! Here is the regulation - right out of the FAR book, telling you exactly what you need to know. ASK! Remember, even <u>if</u> the conditions are met, the PILOT IN COMMAND has the <u>final</u> say so. With the changes, it is now possible, depending....

<u>FEDERAL AIR REGULATION 91.19</u>

(a) Except as provided in paragraph (b) of this section, no person may operate, nor may any operator or pilot in command of an aircraft allow the operation of, any portable electronic device on any of the following U.S. registered civil aircraft:

(1) Aircraft operated by an air carrier or commercial operator; or
(2) Any other aircraft while it is being operated under IFR (Instrument Flight Rules).

(b) Paragraph (a) of this section DOES NOT APPLY to:

(1) Portable voice recorders;
(2) Hearing aids;
(3) Heart pacemakers;
(4) Electric shavers; or
(5) ANY OTHER PORTABLE ELECTRONIC DEVICE that the operator of the aircraft has determined will not cause interference with the navigation or communication system of the aircraft on which it is used.

(c) In the case of an aircraft operated by an air carrier or commercial operator, the determination required by paragraph (b)(5) of this section shall be made by the air carrier or commercial operator of the aircraft on which the particular device is to be used. In the case of other aircraft, the determination may be made by the pilot in command or other operator of the aircraft. .... END OF REGULATION ....

I know that is an involved regulation, but most airlines have elected to make it company policy as to allow or not allow these "portable electronic devices". Look in the seat back pocket when you board an airline. If the information card does not say "No Radios Allowed", then ask, especially if flying an international flight or foreign carrier.

We are using VOR or "radio aid" navigation less and less. If you hear an aircraft mention "foxtrot equipped", INS, OMEGA, or R-NAV, they carry what they need to get from point "A" to point "B". When scanning, listen for company or "AIRINC" communications between 129.000 and 131.500, more or less. That is where you find the company conversations. There are no communications below 117.995 MHz, just navigation aids. Don't forget "Flight Watch", an FAA weather service on 122.0 for low altitude planes, and on 134.820 MHz. Although unauthorized by the FAA and FCC, you will hear some interesting plane to plane communications from time to time on "one two three four five" --- 123.450 MHz!! This is a hold over from the old over-water, international Navy pilot days and still shows up frequently in the USA! This has been a problem when the FAA has a station using this frequency and located within range of the "unauthorized" communication.

(The frequencies to which Bill refers in the beginning of his column are too small to print as received. Some of them will appear, retyped, in the next issue.)

Editor

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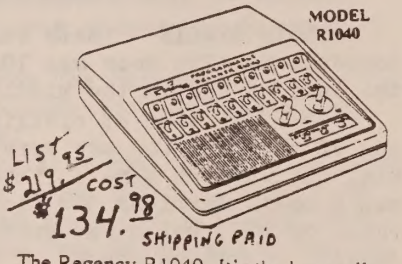

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Robert Horvitz, editor

This column is for AM, SSB, RTTY, CW & FAX reception reports, explanatory notes, articles, news & questions related to HF utilities. Services covered in this column include civilian aeronautical, coastal/marine, government, military, weather, etc. – essentially everything except broadcasting, CB & amateur radio. Send to: Robert Horvitz, 54 East Manning St., Providence, RI 02906

A new device from Grove Enterprises seems designed specifically for VHF monitors who want to expand their listening to the HF bands: the CVR-2 Globescan plugs into any scanner with 118-136 MHz AM Aero reception, shifting reception down to the 4-22 MHz band. Costs about $80--much less than your average portable SW receiver. But note that the Globescan does not provide SSB capability, so listening would be limited to AM. HF utilities primarily use SSB now for voice communication. AM would give you access to international broadcasts, however, and I believe that everyone should listen in to these highly informative stations.

.....

Our focus this month is on spy/numbers stations, thanks primarily to some fascinating material sent by Geoff Halligey (ENG-005). Geoff describes himself as "a retired Radio Operator, having served on fishing trawlers, cargo boats, aeronautical ground stations and aircraft (British European Airways). I was in the British Radio Security Service during WW2, intercepting Abwehr (German Army) transmissions to and from occupied Europe. When I retired, I bought myself a Drake R7 rx, and search around for utilities, spy and other illicit CW transmissions. Have also a Tandy Patrolman 50 (your Radio Shack operates as "Tandy" in the UK--someone else got in first with the Radio Shack title in this country). This is OK so far as it goes, but I am looking around for a wide coverage scanner... There is not the interest in VHF utility monitoring over here [that you have in the States], and while not illegal it is frowned upon. Publication of exact frequencies for, e.g. police or fire, would probably be considered an offence at law." For a rare insight into the possibilities of monitoring in the UK, see "Eavesdropping on Scotland Yard" by Jane Boutwell, reprinted in the Jan 82 issue of our Newsletter, in the International column. Geoff's got a lot to tell us, so I'll just get out of his way:

Enigma and the RSS by A. G. Halligey

DIPLOMA BERLIN - these were the words that first aroused my interest in radio interception. The year was 1940 (we were well into the war with Germany), the place the Isle of Man in the middle of the Irish Sea.

My job was that of civilian radio operator providing ground communications with one of the civilian air services still running, between Liverpool and the Isle of Man, but when at home I listened to other things. My borrowed shortwave receiver was a small American job (could it have been a Howard?) so reception was limited to voice or MCW, which was quite a common mode of emission in those uncongested days. Anyway, searching around, I came across regular messages addressed to DIPLOMA BERLIN transmitted from Argentine stations using five-figure code. Thinking that someone should be told about them, I posted a number off to the Foreign Office in London.

In due course I received a stately acknowledgement on behalf of Lord Halifax, the Foreign Minister, on stately thick blue notepaper.

Meanwhile, unbeknown to me, the German Enigma coding machine was already in British hands. Equally unknown to me, an organisation had been set up in Bletchley, Buckinghamshire, to decode German Army, Navy and Air Force communications, all of which were encoded on Enigma.

For those unfamiliar with the Enigma machine, may I add that at its heart were at first three and later five, 26-position coding wheels combined with a complicated patchboard. The wheels were operated from a typewriter-like keyboard. The coding wheels and patchboard were set up manually at midnight each day to new positions; the number of variables ran into millions. The code thus produced would appear to be unbreakable (these were pre-computer days), but a few Cambridge University mathematicians and some other highly intelligent individuals got the measure of it and before long were decoding virtually every enemy message transmitted. On more than one occasion our military commanders received the German orders of battle before their German counterparts!

Our decoders had to start fresh every day when the codewheel and patchboard settings were changed. Before the codebreakers could start, however, they needed messages, lots of messages, to compare, to deduce, to make trials. Hundreds of wireless operators, many of them enlisted young women, were hastily taught the Morse code and

were set to the task of interception. Not all of this work was carried out in the United Kingdom; interceptors also worked in the eastern Mediterranean area--the better to hear transmission from distant Balkan and Russian territories.

During World War II there were widespread monitoring nets in the UK. The armed services each had their own monitors, but there was also a large amateur organisation, largely, but not entirely, staffed by Radio Society of Great Britain (RSGB) members. Each member was allotted a 500 kHz band; the idea was to become thoroughly familiar with one's band and to recognise every "regular" transmitter both by day and night. Anything irregular was then fairly easy to pick out. Emphasis was placed on recognising individual operators' keying characteristics, so that a change of call sign or frequency could be followed up.

This volunteer, part-time organisation was known as the Radio Security Service (RSS). As an RSGB member, I was recruited into the RSS not long after I had written to the Foreign Office. Our primary task, we were much later told, was to intercept German Army Abwehr (security service) messages. Of course, at the time we did not know what we were receiving, but were simply told to ignore certain types of messages and to concentrate on others. All the messages received were in five-letter code (the Enigma machine had no figures; numbers had to be spelled out) and we posted them daily to "P.O. Box 25, Barnet, Herts.", but what that address hid I have never yet discovered. Herts. is the abbreviation for Hertfordshire, a county just north of London.

Messages from Allied agents on the continent to the UK were, of course, sometimes intercepted. They were, however, easily identifiable by their 3-group preamble, always made up from letters contained in the word CONGRATULATIONS. We disregarded such messages.

Nobody knows how many HROs were shipped across the Atlantic for this service, nor how many were lost in sunken convoy vessels. The shortage of receivers was so great that I was given the cash to buy and build a kit of parts for a simple TRF receiver, which lasted for a year or two until something better turned up. My allocated frequency band was 4500 to 5000 kHz, so there were no particular difficulties in tuning or stability (remember 'hand-effect?).

At this time nearly all radio transmissions, apart from ham and broadcast stations, consisted of Morse code at speeds varying between 20 and 400 wpm. RTTY had not been thought of; there were practically none of the weird noises one hears today. Also, regular callsigns were in use - three letters for ground stations and four for ships. The British services used letter-figure-letter combinations, so that the origin of every transmission was easily identifiable, once the callsign had been received. The German nets used three-letter callsigns picked at random, but they avoided duplicating commercial calls, so that it was comparatively easy to pick them out.

There was virtually no feedback to the interceptors from the decoders - just twice in four years I received a note to say that a particular message that I had sent in was "very important". But that was reward enough!

To follow the Enigma story in step-by-step detail, including the fascinating method of actually breaking the codes, readers are advised to study the latest book on the subject: The Hut Six Story--Breaking the Enigma Codes by Gordon Welchman, published in the US by McGraw Hill, 1982, ISBN 0-7139-1294-4. Mr. Welchman was one of the Cambridge mathematicians.

Geoff sent additional material that will appear here as soon as space permits. He also noted 5-figure #-groups in German on 24.120 MHz (AM) at 1530Z June 5. It is a privilege to be able to publish a reminiscence as detailed and eloquent as the above. Imagine 2600+ RCMAniacs in standing ovation, Geoff!

To end more contemporarily, Glenn Hauser's WORLD OF RADIO show on WRNO last Oct 23-24 featured some numbers news: "Most astounding of all is a report from Terry Krueger [sp?] in Casselberry, FL, and even a reproduction of it in DX South Florida, of what might be the world's first numbers QSL. He's been hearing, on 15652 kHz, numbers around 0200 GMT, and since this is a known VOA feeder frequency, as a lark he sent a report on the numbers transmission to the Voice of America. And they QSLed! It says, '15652 kHz 0200 GMT August 22, Antiqua Island. Signed by V. Smith.' As far as we know, the transmission is to Antigua, not from Antigua. Of course, we don't really know whether the Voice of America is actually admitting that it carries numbers transmissions--or if this simply falls into the category of 'automatic verification', in which case the veri would be worthless." Please let me know if you hear anything on this frequency. Meantime, keep your ears to the sky...

Business, Etc.

This column is for reporting frequency and radio system information for the following varied services: business, forest products, petroleum industry, special industrial, manufactureers, news media (behind-the-scenes radio, TV & newspaper), motion picture industry, security (private patrol, detective agencies, campus security & police, amusement park & stadium security, shopping center & mall security, plant/business/hotel security, etc.), General Mobile Radio Service (GMRS), mobile phone/RCC & paging, trucking firms, bus lines, taxi cabs, tow trucks, utility companies (private & municipal water, power, electric, gas, telephone, etc.), and all school & college related frequencies. Send information and questions pertaining to the radio services covered in this column to:

Larry Smith, 1223 Vinsetta Blvd., Royal Oak, MI 48067.

GREETINGS AND WELCOME TO ANOTHER COLUMN OF "BUSINESS & ETC."

THIS MONTH WE HAVE "3" CONTRIBUTORS FROM CALIF. AND MICH. WITH INFO FROM THEIR AREAS. MY AND ALL THE OTHERS THANKS GO OUT TO:

NEAL [CA-LA-385] INFO ON SAN FERNANDO VALLEY, CALIF. BUSINESSES
JIM [MI-044] INFO ON THE DEXTER, MICH. AREA BUSINESSES
BOB [MI-108] INFO ON SEMTA BUSSES IN S.E. MICHIGAN

OUR FIRST IS FROM NEAL WHICH IS SHORT THIS TIME AROUND BUT HE HAS COME THROUGH WITH OTHER GOOD LISTINGS IN THE PAST SO HE IS EXCUSED THIS TIME AROUND. HE ALSO ASKS OF THOSE IN THE SOUTHERN CALIF. REGION: "WHAT I WOULD LIKE TO SEE IS MORE LOS ANGELES/SAN FERNANDO VALLEY/PALM SPRINGS AREA MEMBERS CONTRIBUTING THE FREQ'S THEY HAVE FOUND ON F.C.C. MICROFICHE!" [Ed. Note: CONFIRMATIONS ARE NEEDED MORE THAN LISTINGS FROM ANOTHER LIST].

San Fernando Valley Business Frequencies.
From: Neal (CA-LA-385)

151.895	Universal Studios-security
151.895	Rowlett's Towing North Hollywood
462.650	Toluca Lake Security
463.975	Olympic Cab Co.- Van Nuys
464.200	Starline Sightseeing Tours- Hollywood
464.325	Sherman Oaks Galleria
	Palm Springs
151.925	Sheraton Hotel-Paging & security

JIM SENDS US A LIST WHICH HAS BEEN WELL OVERDO THE PAST FEW MONTHS DUE TO MANY PROBLEMS ON MY END AND I DO APPOLOGIZE NOW FOR LACKING IN YOUR RESPECT. HOPE OTHER LISTINGS WILL BE FORTH-COMING IN THE FUTURE JIM AND I'LL DO MY BEST TO GET THEM IN MUCH SOONER THAN THIS ONE.

JIM [MI-044] FREQS LIST 14

Ypsilanti Savings Bank	12.210
U of M A2 forestry	27.235
Motor Wheel Corp Ypsi	27.265
Wm H. Nix Ypsi	27.410
Koch Broadcasting Corp. Ypsi	27.450
BREWERS NORTH CAMPUS GULF	30.500
SATELLITE AIRPORT PARKING ROMULUS	30.820
SAYERS GULF SERVICE A2	30.880
DEXTER BODY SHOP	30.880
BASE LINE CO. DEXTER	30.880
LOYS TV CENTER A2	31.000
U OF M REGENTS A2	31.160
YPSI PUBLIC SCHOOLS YPSI	31.240
H & H TOWING YPSI	31.240
REGENTS U OF M A2	33.140
DETROIT EDISON DETROIT	33.140

CLAGUE MIDDLE SCHOOLS A2	33.400
REGENTS U OF M A2	35.020
XEROX UNIVERSITY MICROFILMS	35.060
THALNER ELECTRONIC LABS A2	35.040
ALPINE HEATING & AIR CON. WHTMLKE	35.060
SANFORD SECURITY SERVICE A2	35.093
FEL-KRAN PLBG & HTG. A2	35.100
GILLENTINES YPSI	35.140
SOBERYS TOWING YPSI	35.180
BILL & JIMS SERVICE YPSI	35.700
MICH TRENNCHING SVC YPSI	35.800
H. FUERSTEIN DAIRY EQUIP YPSI	35.880
MURPHY STONE BUILDERS A2	35.900
PAULS 24HR TOWING BRIGHTON	35.920
U OF M REGENTS A2	35.940
KELSEY HAYES A2	35.980
MOTOR HOME SVC A2	35.980
SANFORD SECURITY SERVICE A2	35.980
JACKS SERVICE A2	42.960
MARKS BROADWAY MARATHON A2	42.960
MM CHIE EXCAVATING YPSI	42.960
JIM LOWELLS MARATHON A2	43.000
LARRYS STANDARD A2	43.000
ELLOTT TRUCKING CO. A2	43.000
W J SOPSICH YPSI	43.000
YPSI ASPHALT PAVING CO.	43.020
E W GARLICK CO A2	43.060
FLANEGAS CO YPSI	43.080
CLARK BLOCK & SUPPLY A2	43.120
YPSI CNTR FOR FORENSIC PSYCHIATRY	43.640
STATE OF MICH CONSERVATION CHELSEA	44.640
" " " " " "	44.720
" " " " " "	44.800
NORTHFIELD TWNSHP WHTMLKE	45.320
STATE OF MICH A2	45.440
STATE OF MICH YPSI	45.640
MICH HWY MAINT JXN/BRIGHTON	47.140
MICH HWY MAINT BRIGHTON	47.260
MICH HWY MAINT JXN/BRIGHTON	47.320
AMERICAN RED CROSS A2	47.420
BROOKSIDE VET HOSP A2	47.580
CONSUMERS POWER JXN	47.700
" " " "	47.740
" " " "	47.780
" " " HOWELL	47.840
" " " JXN	47.940
S A M E	47.980
	48.000
	48.020
	48.040
	48.080
	48.100
	48.120
	48.160
	48.200
	48.240
	48.280
	48.360
	48.400
	48.440
MICH CONSOLIDATED GAS A2	48.460
	48.520
	48.560
GEORGES MOBILE BRIGHTON	150.815
BREWERS NORTH CAMPUS GULF	150.830
PETER SMITH YPSI	150.860
SMITHS SERVICE CHELSEA	150.875
DANA CORP A2	150.875
GIBSOONS GULF SVC YPSI	150.875
TERRITORIAL STANDARD SVC WHTMLKE	150.890

RICHARD SAKSTRUP A2	150.935
STATE OF MICH A2 HWY MAINT	151.040
STATE OF MICH GREGORY HWY MAIN	151.040
STATE OF MICH HWY MAINT A2	151.070
MICH HWY DEPT A2 JXN GREGORY	151.085
MICH HWY DEPT A2 JXN GREG	151.115
MICH FORESTRY DEXTER	151.250
UNIVERSAL HYDRO TEST A2	151.505
A & M CONST CO A2	151.505
NORTHWEST PROPANE BRIGHTON	151.535
KERRY CONCRETE INC BRIGHTON	151.535
WILLOW RUN SERVICES YPSI	151.535
ED BOULLION DEXTER	151.550
TOWNSEND & BOTTUM A2	151.625
O'NEIL CONST A2	151.625
MANUFACT. DATA SYSTEMS INC A2	151.625
HOOK & WHITE HTG & COOING A2	151.655
U OF M REGENTS A2	151.655
WEBERS INC A2 !	151.655
CLARK ALARM SYSTEM INC A2	151.685
HUTZEL PLBG & HTG A2	151.685
BUSBY FREIGHT LINES YPSI	151.715
GAULT VILLAGE SHOPPING CENTER	151.715
BRIGHTON ASPHAULT & PAVING	151.745
SACKIE SECURITY BRIGHTON	151.745
H ARMBRUSTER DEXTER	151.775
HURON VALLEY GLASS YPSI	151.775
A F SMITH & SON INC YPSI	151.775

JIM [MI-044]

OUR LAST CONTRIBUTOR THIS MONTH COMES FROM BOB, WHO LIVES NOT FAR FROM ME. CALLING ME THIS EVENING, HE GAVE ME HIS FINIDINGS ON THE FINDINGS OF S.E.M.T.A. BUSSES [SOUTHERNEASTERN MICHIGAN TRANSIT AUTHORITY] WHICH COMMUTES PEOPLE TO AND FROM THE SUBURBS OF DETROIT TO AND FROM THE CITY OF DETROIT DAILY. BOB DIDN'T GIVE ME A TYPEWRITTEN REPORT SO I'LL HAVE TO DO IT MY WAY THIS TIME.

43.720	KNE-716	44.560	
43.760	KQC-207	44.580	
43.760	KQC-207	44.600	KLU-474 [TROY BASE & MACOMB BASE]
44.480			
44.480			
44.500			
44.520			
44.540			

THANKS GO OUT TO ALL 3 FOR THEIR INPUTS THIS MONTH AND HOPE TO BE HEARING FROM YOU AND OTHERS IN THE MONTHS TO COME.

BEST REGARDS,

LARRY [MI-001]

contact / info wanted

This column has two purposes: to help members contact each other, and to help members obtain information directly from one another on various subjects related to 2-way communications monitoring. If you desire to converse, meet, or correspond with other members by telephone, letter, or cassette tape in a certain geographic area or with members who have similar listening interests, this is the perfect place for you to make known your interests. Remember – those who respond will do so directly, so be sure to provide your phone number, the best time to be called, or your address. Write to:

Amy Polivka, 12906 Ohio Circle, Omaha, NE 68164

ATTENTION FLORIDA MEMBERS: This member recently moved to Florida and would like to receive frequencies of area police, fire departments, as well as federal frequencies and codes from other area members. (10-9-82)

JACK JONAP (CT-058), 115 Lake Meryl Dr., W. Palm Beach, FL 33411

COMPUTER COMMUNICATIONS: Any RCMA members who belong to Compuserve, Telenet, Tymenet, or any other computer bulletin board service contact this member. He will be making up a list for publication so that ideas may be exchanged via computer. Send him a SASE for a copy of the list when it is complete. (10-10-82)

RICHARD MCLAUGHLIN (MI-031), 158 Floral Dr., Battle Creek, MI 49015

OREGON/IDAHO CONTACT: Member interested in meeting/sharing info with other RCMA members in Southwest Idaho or Eastern Oregon, primarily for sharing frequency data. (10-16-82)

JEFF SHINN (ID-010), 7275 Cascade Dr., Boise, ID 83704

FREQUENCIES DESIRED: This member needs frequencies for Bush Gardens, Tampa Vision Cable, Clearwater Storer Cable, Dunedin; Pembrook Management, Clearwater; Edward J. DeBartelo Co., St. Pete. (10-19-82)

JOE M. LEWIS (MD-015), 977 Irene Ave., Largo, FL 33541

EAST COAST FREQs: Special detective or federal frequencies wanted for the Greater Boston Metropolitan area wanted by this member. Frequencies also needed for the South Shore. (10-26-82)

JEFF KETTELL (MA-128), 3 Ashworth Ave., Braintree, MA 02184

ATTN. N.Y. MEMBERS: New York State member needs 10-codes for the following cities in N.Y.S.--Albany, Amsterdam, Auburn, Ballston Spa, Binghamton, Buffalo, Canton, Cortland, Elmira, Fulton, Glens Falls, Ithaca, Jamestown, Liberty, Lockport, Malone, Massena, Middletown, Monticello, Newburgh, Niagara Falls, Ogdensburg, Oneonta, Oswego, Plattsburgh, Potsdam, Rensselaer, Rochester, Rome, Rotterdam, Saratoga Springs, Schenectady, Syracuse, Troy, Utica, and Watertown.

ALSO -- Would the member who sent in the N.Y.S. frequency info list and the N.Y.S. Police Frequency Assignments in the October 1982 issue please contact the member listed below:

ARTHUR E. WILLIAMS, JR. (NY-022), 576 Springtown Rd., New Paltz, NY 12561 // (914) 658-9467 6 p.m. to 10 p.m.

NEW ORLEANS MEMBERS: Member interested in any frequency information for your area -- especially related to Mardi Gras. Will exchange and/or pay for copies and postage. (10-31-82)

CHUCK STEIER (MN-08), 4820 Hwy. 7, Minneapolis, MN 55416 // (612) 927-9253

Kansas Freqs - Being assigned to Wichita in May '83. Would like freqs of Wichita PD, fire, Kansas State Police, Cessna, Beech Aircraft plants, as well as McConnell AFB. Also would like appropriate codes. Anything else would be appreciated.

Duane Peck (MS 009), Box 206, APO Seattle, 98723

FEDERAL GOV'T and ★ MILITARY ★

Send all Federal Government and Military frequencies (including those of military aircraft), radio system details, and related questions to:
Dennis Biagioli, 607 W. Pleasant Ave., Villa Park, IL 60181

Sensitive frequencies will not be published. Coast Guard material must go to the VHF Marine editor.

Happy Holiday Greetings from partying Villa Park, Illinois. Nothing like cold weather and swirling snow to give radio enthusiasts an excuse to sit down for a little frequency swapping and some serious celebrating.

Some questions arose from members while they were searching for (among other things) Army Corps of Engineers frequencies. One that many of us take for granted is, "How do I find my Bearcat 250's IF?" And another question often asked is, "How do I get UHF frequencies that are not directly enterable on my 250?" Both of these were covered back in the September, 1979, issue of the NEWSLETTER in an article contributed by BARRY (CA-SM-003):

To find the IF of your Bearcat 250 (necessary knowledge for programming image frequencies):

1) Enter search limits of 420 and 421 MHz.
2) Hit the STORE button and let run several seconds. The storage will retain a birdie at 420.7 MHz on units with an IF of 10.85 -- newer 250's use an IF of 10.8, so the birdie will be different.
3) To program an image frequency, add twice the IF to the desired frequency and ENTER in the usual manner.

To program an odd "split" frequency into a Bearcat 250 when the unit will not accept it in the usual fashion (e.g. 450.5125) you can do the following:

1) Enter 450 and 451 as search limits, open the squelch until you hear noise, and press STORE, then MANUAL. This will enter one or more frequencies in the memory.
2) Enter new search limits of 155 and 156 MHz.
3) Press RECALL to display a 450 MHz frequency.
4) Press search UP button and unit will begin searching in 12.5 KHz steps upwards from the displayed frequency.
5) With squelch open, you can manually step the display UP or DOWN to your desired "split." LOCKOUT will enter it in the RECALL(able) memory, or you may enter it into the scanning channel you desire by simply turning the unit OFF and then ON. It will then be in the non-volitile memory and can be scanned or monitored as any other normal frequency.

CRAIG THOMPSON (CA-VE-011) copied the following out of a C-130 Hercules from the 303rd Air Force Pararescue Squadron. The pilot told him they are used in the Sierras and Pacific Ocean for search coordination. The aircraft is stationed at March AFB, near San Bernardino, California.

154.92	(CLEMARS)	168.625	(USFS Air Net)
155.28		168.50	
155.34		172.60	(USDI Air Safety)
156.30	(Intership safety)	156.80	(Marine Ch. 16)
156.65	(Marine Ch. 13)	153.80	
164.05			

In order to reduce a backlog of information received, I am combining several contributions in a frequency order list (freq. - state - se - contributing member's number):

38.30	TX	MAST helos. & Darnell Army Hospital (TX-029)
41.80	MI	Army / Air Nat'l Guard, Battle Creek (MI-031)

41.85	MI	Air Nat'l Guard Helos (MI-031)
41.90	MI	Army Nat'l Guard (MI-031)
46.75	PA	Eastern PA tact. air training, Willow Grove NAS (PA-093)
46.85	PA	Ditto
139.100	MI	FEMA (Fed. Emerg. Mgmt. Admin.), Battle Creek (MI-031)
143.460	IL	Hines VA Hospital MARS net (IL-129)
149.450	IL	Great Lakes Naval Tng. Cntr., security (IL-129)
149.5625	MI	Wurtsmith AFB, Operations (MI-108)
162.1250	LA	GSA, New Orleans, KPA820 (LA-003)
163.0000	LA	New Orleans, paging, KLM500 (LA-003)
163.1750	LA	Baton Rogue, GSA, KPA816 (LA-003)
163.4625	PA	Ft. Indian Tower Gap, fire (MA-066)
163.4875	MI	Selfridge ANG Base, police/security (MI-108)
	MI	Wurtsmith AFB, engineers (MI-108)
163.5125	MI	Wurtsmith AFB (MI-108)
163.5875	MI	Wurtsmith AFB, Base Control and Police/Security (MI-108)
163.9000	MI	Wurtsmith AFB (MI-108)
164.0500	MI	Wurtsmith AFB, Police/Security F-4 (MI-108)
164.1000	MI	Wurtsmith AFB, Police/Security (MI-108)
164.1750	AZ	VA Hosp. paging, Phoenix (AZ-048)
164.2000	TX	VA Hosp. paging, Temple (TX-029)
164.7500	IL	Argonne Lab, Lemont, fire (paired 164.375) (IL-129)
164.9375	LA	Kisatchie Nat'l Forest, KKo803 (LA-003)
164.9625	MI	Post Office, Detroit (MI-108)
165.0625	MI	Wurtsmith AFB & Selfridge ANG Base (MI-108)
165.0875	LA	Baton Rogue, VA admin. freq. (LA-003)
	IL	Ft. Sheridan, Army MP's (ed.)
165.0625	MI	Warren Army Tank Plant, AFA30 (MI-108)
	PA	New Cumberland Air Force Police (MA-066)
165.1125	MI	Wurtsmith AFB & Selfridge ANG Base (MI-108)
165.1625	MI	Selfridge ANG Base, aircraft maintenance (MI-108)
165.5875	TX	Beaumont, Commerce Dept. Matitime Admin, KAM575 (LA-003)
165.7625	LA	FAA, New Orleans, paired w/ 166.1750 (LA-003)
166.2000	LA	VA, New Orleans, security & gen. usage, KLM500 (LA-003)
166.3750	IL	Chicago, O'Hare Airport Auto. Mail Facility (ed.)
167.9750	IL	Argonne Nat'l Lab, Lemont, paging (IL-129)
168.3750	LA	Lafitte Nat'l Park, input to 169.675 (LA-003)
168.5125	MI	Battle Creek, ANG Base, Police (MI-031)
168.5250	MI	Battle Creek VA Hosp. (MI-031)
	LA	Shreveport VA Hosp., security, KLM528 (LA-003)
	LA	Alexandria VA Hosp., security, KF0238 (LA-003)
168.6250	CA	U.S. Forest Service, Air Net (CA-VE-011)
	LA	Kisatchie Nat'l Forest, Air Net (LA-003)
169.1500	LA	Agriculture Dept., Animal & Plant Health Insp. Svc., New Orleans, F-1 (simp) & F-2 (R - w/ 172.250) (LA-003)
169.2000	IL	Hines VA Hospital, security (IL-129)
169.6750	LA	Lafitte Nat'l Park, New Orleans,(R - w/168.375) (LA-003)
169.9250	LA	Kisatchie Nat'l Forest, main freq. (R-w/170.525) "

That's all we have space for this month. My thanks to all the members who contributed these. I have had several requests for frequency sorting program suggestions for home computer files. Anyone have anything here to share?

I hope '82 was a good year for you, and may '83 bring even more—

Good listening to all!!

73's,

Denny

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OF ACTIVE FIRE FREQS.

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Robert Kurtz / 7 Boileau Court / P.O. Box 237 / Middletown, MD 21769

PAID ADVERTISEMENT

International

Richard Stein, Editor

This column is for reporting two-way communications frequencies above 30 MHz, radio system details, monitoring experiences, and any other information relating to monitoring in countries other than the United States and Canada. Send to: Richard Stein, 456 Barrymore Place, North Brunswick, NJ 08902.

Let's continue this month with Mexico and the excellent list from member Rafael Mirano:

TECATE

Municipal Communications System:

F-1	171.900 (R)	172.500 input	rural areas,police
F-2	171.900 simplex		Tecate police
F-3	171.950 simplex		Fire Department
F-4	172.550 simplex		Tactical, Local gov't

State Judicial Police and State Highway Patrol:

31.850

ENSENADA

Police, Public Safety	148.500	
Police,Traffic Control	148.300	
State Judicial Police and State Highway Patrol	31.850	
Federal Highway Police	154.700	
State Public Works	148.175	
City Public Works	151.460 (R)	153.775 input
Harbor Command (Mex. Navy)	156.300	
State Emergency Network(CECE)	148.225 (R)	149.525 input

N.B.: Seems that it is in the city of Ensenada that the greatest amount of bootleg radio operations occur- fishing fleets, construction companies, etc. Widely employed are the amateur Tempo S-5 or Icom IC2A units and the band from 142.0 to 150.0 is completely saturated with these ops. Hardest hit is the 2-Meter amateur band 144.0 to 148.0 which the commercial operators now seem to consider as their own.

To be continued.... next month Mexicali area.

••••••••••••

Back at the beginning of this year, there was considerable TV coverage of the activities in Poland. It has been reported to me that a station wagon that Gen. Jaruzelski stepped out of at one meeting, carried a 400MHz. UHF antenna on the center rooftop. It did not appear to be of the usual European style.

••••••••••••

I'm again going to appeal to any members living along the southern border areas (Cuba, Caribbean, Mexico) to please report any signals they believe to originate outside of this country, to this

column. It is not important to have ID-ed the source exactly. We can compile an active log of un-ID-ed signals. This log might be useful in ID-ing some of the low band skip signals now being received.

••••••••••••

The microcomputer has begun to invade our homes. With this in mind and with a eye to using these units for logging and sorting of frequency information, I am reporting a local amateur net for the Timex-Sinclair computer. The net is called the Eastern Regional Sinclair (Timex) Users Net and can be found at 7240kHz at 1600 Zulu (that's 11 a.m. EST) Sunday morning. I would suggest that anyone with a T/S unit,or any potential user, should tune into the net. There is a good deal of most useful information shared there. Some of this information can not be found anywhere else.

Until nex month, שלום

FCC TOPICS

George DuBois, Editor

FCC news and information of interest relating to two-way communications. Send comments and questions to:
George DuBois, 10048 NE Campaign, Portland, OR 97220

Following is the conclusion of a two-part article

Editor

Another major change is that which now allows applicants (except SMRS's) to select their own frequency, either by using a frequency coordinating committee or by choosing their own and submitting a field study. (This is the way it is done in the other bands.) The 70-mile separation criteria used by the Commission need not be applied when terrain or other factors ensure that interference to other systems on the same channel will not occur. Use of frequency coordination committees will also simplify the licensing of wide-area systems. Before, it had been difficult to license a wide-area system, since when the FCC selected the frequencies, two transmitters be located within 70 miles of each other. Now, local coordination groups will be able to recommend frequencies to be used in wide-area systems, such as state-wide or ribbon configuration (long, narrow areas of operation, such as along railroads).

Licensees may now use any type of emmission and any number of carriers within a single channel. Maximum bandwidth will be 20 kHz on a normal 25 kHz channel, although up to five contiguous 25 kHz channels may be assigned. All emissions must be confined to the channel(s) assigned and the sum of all emissions in each 25 kHz channel must not exceed the present power limits. In other words, a licensee could have four 5 kHz wide SSB channels in one 25 kHz channel, each with a 250 watt ERP (1000 watts total). Or nine 5 kHz channels in two adjacent 25 kHz channels. This will only be allowed on channels assigned to one licensee, or on shared channels where all parties agree to its use.

Of great importance is the agreement reached with Canada in April of this year. Sharing arrangements were developed so that both countries would have exclusive portions of the bands. These sharing arrangements apply to areas within 87.5 miles of the border. This 87.5 mile wide strip is divided into nine segments stretching the length of the border and different conditions apply in each region, depending on use in Canada. For example, west of 66° longitude all 600 channels will be available in both countries over 60 miles from the border (with reduced power if necessary to limit interference). Within 60 miles only 300 channels may be used. (And

an exception to this exists: protection must be given to a TV station in British Columbia on channel 77 (848-854 mHz).) Varying numbers of channels are available in the other regions, the least being only 180 channels available between 71 and 81° longitude (region 2, from the Maine border to roughly the Ohio border). This is mainly because of the overlapping geographical areas and the extreme congestion but also the three UHF TV stations in lower Ontario. These stations are expected to be reassigned by the end of the year. Until then 851 mHz assignments in Detroit and Cleveland will be limited. Since there are fewer channels available in some regions, there cannot always be a full one mHz between channels in trunked systems, because the band of channels available obviously isn't wide enough. In region 2 there is only 450 kHz between channels in a five channel trunked system. Where 300 channels are available the spacing will be 750 kHz. And of course, with fewer channels, the frequencies in each of the four service "pools" is fewer, but roughly the same proportion is maintained.

The plan agreed with Mexico allows for a 200 channel-pair band for use in the San Diego area. This band will be divided in half, every other channel assigned in the U.S., the other in Mexico. Since most of these can't be used in San Diego due to interference from stations in Los Angeles, the new channels for San Diego will be offset by 12.5 kHz. The frequencies will be 12.5 kHz lower, from 856.000 through 860.975. If the agreement with Mexico can be modified, the Commission is considering allowing offsets in the 861-866 mHz segment also.

The Commission will begin accepting applications for the newly released frequencies on November 15. All applicants for the previously released conventional channels will have their applications returned so that they may specify the frequency on which they wish to operate. Applicants on waiting lists for the existing trunked channels may withdraw their applications and submit new applications for the newly released channels. Otherwise, they will remain on the waiting lists for the old channels. If there are more requests for new frequencies than are available in an area, hearings will be held to select the licensees. Preference will be given to trunked operation, particulary expansion of existing, fully loaded systems, since they obviously can accomodate larger numbers of users.

It's hard to say how many local governments will apply for the 800 mHz Public Safety frequencies. They more or less have to jump right on this, since their pool will only be reserved for 18 months. Of course, they have up to three years after applying to construct thier system. The vast majority of activity in the 851 band is in the Business Radio Service. I don't know how interesting most of you would find that, but the point is that we are in the same situation they must have been in in the mid-60's, a new band (450 mHz, then) being used and nothing to listen to it on. I use a converter for 851, but it sure would be neat to have a scanner that covers the band. Bearcat tried once with the model 5/800. I hope they don't give up.

And on a related subject...

The Commission amended Part 15, the UHF Comparability rules. These are the regulations that require television sets to have equal ease of tuning for both VHF and UHF stations and sets performance standards for UHF TV tuners. This is to encourage the use of the UHF band. When the Commission reallocated channels 70 through 83 (806-890 mHz) they still required TV sets to be equiped with all 70 UHF channels. Of course, TV translater stations did still operate in the band. Now, they have decided to eliminate this requirement. TV sets now manufactured need only cover channels 14 through 69. Manufacturers had stated that they could design UHF tuners with improved performance if they weren't required to cover such a wide band. Now, no manufacturer is going to drop these channels immediately, since quite a few translaters still are on them. But it will offer encouragement for translater operators to change frequency, to a lower channel, since they know that eventually new TVs won't have these channels. The band will then be exclusively for land mobile use. Most translaters now operating are in remote or fringe areas anyway, so there isn't much conflict.

LOW BAND SKIP
Send reports of distant stations received on the 30-50 MHz Band, as well as: information; comments; suggestions; question; and any items of interest regarding Low Band Dxing to:
Mike Britt, 14631 Yorba Street, Tustin, CA 926380.

Greetings for 1983!

The new year ushers in a new look for the Low Band Skip Column, one which is hopefully more pleasing to the eye, and will perhaps make it easier to quickly locate this particular column as you flip through the newletter each month (since I KNOW all of you look forward each month to getting the latest scoop on skip, right?).

To say the pattern of F_2 skip has been unusual would be an understatment. Compared to the Dx of past winter seasons, the F_2 has been very unpredictable. The explanation for this lies with the odd solar patterns, which have produced what Astronomer David Meisel of Mail-A-Prop calls "a see-saw" affect in terms of the daily propagation levels. This is resulting from the fact that one side of the sun is virtually non-active, while the other side is extremely active. This unusual condition is resulting in some days which have very little skip activity, and others which have ABOVE NORMAL activity!

Although it is true that we are on the downhill side of the current 11-year sunspot cycle, it seems that the sunspots themselves are decreasing in increasing amounts. That is to say that, although the days of high-level activity are getting spread further apart, those days which do have high-level activity have both a high Maximum Usuable Frequency (MUF) and strong Dx signals. One such period was October 21 to October 28, with the MUF reaching as high as 46 MHz on the weekend of the 22nd-24th. If you were monitoring on those days, you may have noticed an unusual amount of stong skip all across the VHF-Lo band. I received several reports from different members, all who experienced the teriffic Dx caused by the conditions. To illustrate just what was being heard; I received a letter from Duane (MS-009), who is presently in Galena, Alaska (approx 250 miles west of Fairbanks) at the USAF installation there. On Oct 22, 1982, at 16:00 Alaskan Daylight Time (01:00Z), on a Bearcat 300 - with no external antenna - Duane monitored the Los Angeles County, CA. Sheriff's Department on 39.14, 39.44, 39.64, 39.82, 39.88, and 39.94 MHz. Additionally, he received a computer generated voice security alarm on 35.06 (any ideas anybody?), and SPANISH on 35.14! I'll have the reports from others later on.

MORE MYSTERY REPEATERS!

In the last episode of the continuing search for the identities of those South American repeaters, I told of the discoveries made about the bizzare transmissions heard on 33.475 and 33.675. Well, so much has happened in just one month's time, I'm not sure where to begin! Not only has much more been learned about those two skips, but, between Chuck (IL-141) and myself, new repeater outputs have been uncovered on 33.875, 36.87, and 36.97. Add to these our old favorite on 36.90 (ala, everything-on-33.90-in-North-America-is-repeated fame) and suddenly things are propagating from left to right, up and down, before your very ears.

Recall that on both 33.475 and 33.675, skip from the repeaters has contained a mixture of U.S. police transmissions, originating from 39.48 and 39.68, respectively. My suspecion was that the inputs to these circuts were actually located 6MHz above the outputs, which would put them at 39.475 and 39.675, rather than 39.48 and 39.68 as might be believed. Well, since the writing of last month's column, I have proved this theory to be correct. Not only that, but now there are three separate repeaters (possibly located in the same South American country), which have this 6 MHz spacing between the odd frequencies used for the input and output of radio traffic. These are:

INPUT	OUTPUT	TRAFFIC HEARD
39.475	33.475	repeating skip from 39.48; Spanish-(seldom)
39.675	33.675	repeating skip from 39.68; Spanish-active
39.875	33.875	repeating skip from 39.88; Spanish-active

In previous references to the 33.475 mystery repeater, it was noted that there had been no "true" voice traffic heard that was of any significance ("true" traffic being the "native" conversation meant for the repeater, rather than skip which is being rebroadcast by the repeater). That is no longer true, for, since

the first of October, "native" traffic has been heard on 33.475, and it is Spanish.

Although I had received what seemed to be Spanish prior to October, I could not be certain, since the transmissions were only short bursts (of one or two words), and were never captured on tape to be analyzed. On 10/1/82, however, Chuck (IL-141) reported receiving a female Spanish speaker on 33.475. The following day, 10/2/82, I, myself, received a brief Spanish conversation. Such "native" traffic has been heard several times since then on 33.475. However, 39.475, the assumed input for this circut, has yet to yeild any Spanish skip.

As mentioned last month, Spanish has been heard on 33.675, in addition to the repeated U.S. skip. The first solid evidence to support my theory about the 39.X75 inputs came on 10/16/82, when Spanish was heard on 39.675(not 39.68, although audible on that freq.). The assumption that 39.675 is indeed the input freq. to the 33.675 repeater output was substanciated by a comparison of Spanish conversations taped from 33.675, and 39.675. At least one of the voices of the Spanish speakers seems to be heard on both frequencies! The ideal situation would be if one could receive skip from one of the 39.X75 inputs, while at the same time, receive the same identical traffic on skip from the 33.X75 output!

The discovery of the 39.875/33.875 repeater came about as the result of searching through my 'file' of unidentified and foreign skips which have been reported by RCMA members. I ran across several reports of Spanish having been heard on 33.88 - including one which appeared in the Oct. '82 newsletter. That one was from Richard (MD-068), who had reported the reception of Spanish not only on 33.88, but on 39.88 as well. There it was again - the 6 MHz combination! Putting both 33.875 and 39.875 into the scanner program brought results the very next day. At 15:40, on 10/21/82, Spanish was heard on 33.875. Then, on 10/24/82, at 15:20PDT, Spanish came in on 39.875. Both were verified to assure the traffic was indeed on the .X75 frequency. So then, those of you who have heard Spanish on 33.88 in the past, were probably hearing traffic which was actually from 33.875 - a South American repeater output!

Once it is understood that traffic from frequencies as close as 33.475 and 33.48 can be heard on each of those freqs. if the traffic is strong enough, then one can begin to understand the unusual circumstances which create the bizzare reception on the 33.X75 freqs. What is involved on both the input and the output of these channels is a bleed. Listening to the U.S. police skip which is rebroadcast over 33.475 and 33.675 by the repeaters, it is evident that there is a great amount of distortion to the repeated U.S. skip. This is because the skip is bleeding from 39.X8 onto 39.X75, which is the actual input for the foreign repeaters. This explains why, unless the skip is strong on 39 MHz, the U.S. skip being repeated on 33.475 and 33.675 will be garbled, and barely recognizable as more than a "blaring" static noise.

Therefore, it is understandable that, when the MUF is below 39MHz, no repeated U.S. skip will be heard on the 33.X75 channels - but, if, at the same time, the MUF isabove 33 MHz, skip from South America will be received in the U.S. on the 33.X75 freqs.(although the channels will not be as active, as the repeater will then only be keying for "native" traffic, and not skip).

Here is what happens when the foreign repeaters are heard rebroadcasting skip from the United States: Using 33.475 as the example - Police traffic in the U.S. on 39.48 skips to South America. There, it is strong enough to be received on 39.475, the input channel for a station utilizing a repeater. This repeater rebroadcasts everything it hears from 39.475 onto the output freq. of 33.475 (the repeater is apparently not "guarded", to prevent the rebroadcast of external interference. As a result, Spanish from 39.475, U.S. skip from 39.48, and anything else received, is all put back out on 33.475). This South American broadcast on 33.475 then skips to North America. There, if strong enough, the 33.475 signal may be heard on the FD freq. of 33.48. As you can see, the same sort of bleed which causes the traffic on 39.48 to be picked up on 39.475, also causes traffic from 33.475 to be heard on 33.48. The .005 MHz difference between the freqs. is what results in the distortion of the signals.

As for the frequencies of 36.87, 36.90, and 36.97, these three channels are repeating United States fire traffic. 36.90 has long been known, and has an input on 33.90, a frequency used by such FDs as Cleveland, Ohio, Hamilton County, Ohio, Lakes Region, New Hampshire, and many other Eastern U.S. fire dispatches. It can be assumed then that the inputs for 36.87 and 36.97 are then on 33 MHz as well. More information about these 36 MHz repeaters will be upcoming in the Low Band Skip column.

There is still the problem of explaining why the constant carrier signal was heard on 33.475 in the past. One possibility might be that the foreign repeater on this freq. did, at one time, operate with some sort of continuous tone coded squelch system (channel guard). But if that was the case, then it would seem that the open carrier noise would have been heard only when a signal accompanied by the tone was transmitted, and not all the time. This throws the focus over to the input freq. Why would it be continually transmitting? Are we to believe that there was an open mike for six months? Or, was the repeater malfunctioning? My only guess goes back to the channel guard itself. The California Highway Patrol utilizes a continuous tone coded squelch system (heard as a low "humm" when the base transmitts), and the

CHP office located near me has always been transmitting some sort of low constant signal on it's primary base frequency (it is not a birdie on any of my receivers). So could it be possible we were hearing the same sort of thing from the South American station on 33.475? Someone who knows more about repeater systems might have some thoughts about this unsolved mystery.

At any rate, you can begin to see the complexities which often arise when there is a repeater involed in the reception and transmission of skip - especially when more than one continent is involved. The identification of the precise origin of such repeaters can be both helped and hampered by the mere fact that U.S. skip is not the only traffic received by the repeater as the result of radio wave propagation.

A case in point is a particular reception taped by Chuck (IL-141) at his RCMA monitoring post in Illinois. As it turns out, the language which was heard was French-Creal, which is spoken in Haiti. This was received on 33.475, and as it turns out, must have actually been a skip from 39.48 being picked-up and rebroadcast by the repeater. Proof of this was the fact that the staticy French-Creal conversation is, at one point on the tape, "stepped on" by a very clear and strong Spanish transmission which states "cuatro-dos-cuatro", which translates "four-two-four". This is no doubt some "native" traffic from the 39.475 input.

It sounds as if explaining all this is second nature to me, but don't think for a minute that the discovery of this data was easy. A lot of time and effort went into researching - and just plain brainstorming- to come to these conclusions. For example, although I have some knowledge of the various languages of the world, I was totally baffled when I heard this tape of the French-Creal conversation. All I could tell was that it had the charactoristics of the romance languages, but was not one of the traditional ones of that group. It took me several days of having various people, fluent in different languages, listen to the tape, before the language was IDed by a college French professor, who happened to be fluent in French-Creal (it is like a cross between French and Spanish, very full of Haitian slang).

If there is a lesson to be learned it is that, anyone serious about getting the WHOLE TRUTH (whatever that might be) about a skip reception, especially one that is obviously foreign, or at least unusual, must do a little detective work. I urge all of you to check out adjacent frequencies, to see which one the skip you hear is strongest on. Do some homework - make a list of the birdies you <u>normally</u> receive, and be suspecious of any strange noises which appear only when skip is in (esp. any open carrier signals!). Most of all, don't think your scanner won't lie to you - remember, a majority of such receivers do produce images, which will only throw you off from the actual frequency of reception.

<u>MORE INPUT THAN OUTPUT</u>

It was a hard decision to make, but I elected to sacrifice member's reception reports this month for the in-depth discussion of these mystery repeaters many of us have been hearing. Reception reports will appear in next month's column, however. The limitation on column length certainly came at the wrong time, as far as this column is concerned. My backlog of material is getting larger by the week. However, I have every intention of covering all contributions - eventually. For those of you who have written me, but have yet to receive a response, let me assure you that I will respond sooner or later (probably later). I have a limited amount of spare time, which must be distributed among various interests and other commitments.

Lots more in store for the February newsletter - including more foreign Dx!

73s, Mike

Marketplace

Gary M. Darcy, Editor

Members may advertise, free of charge, items wanted, items for sale, and items for trade that are associated with the hobby of monitor/utility radio listening. No dealer ads will be accepted for this column. RCMA assumes no responsibility for the outcome of any transactions between members resulting from ads printed in this column. Send to:

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Please be sure to include your membership number.

All Marketplace ads will be accepted ONLY on special forms available from this column's editor. Send a self-addressed STAMPED envelope (business size) to the address above to receive a supply of forms. Foreign members do not need to include postage on envelopes they send.

WANTED: Regency TL-1 Series- High Band. Should be in good working condition. Antenna & instruction manual included, if possible. Case in good condition. Contact: DAVID R. VAUGHN (OH-127), 1106 Grandview Ave., Columbus, OH 43212 or phone 614-488-3938 after 1900 EST. (9-7-82)

WANTED: Regency ACT-W10-Whamo 10. Unit should be in good physical and working condition. Antenna & power cord included. Blank combs if seller has them. Will consider DFS-5K unit if seller has one. Contact: DAVID R. VAUGHN (OH-127), 1106 Grandview Ave., Columbus, OH 43212 or phone 614-488-3938 after 1900 EST. (9-7-82)

WANTED: Regency TMR-1 H. Unit should be in good working and physical condition. Should include all antenna, mounting bracket and AC/DC power cords & instruction manual. Contact: DAVID R. VAUGHN (OH-127), 1106 Grandview Ave., Columbus, OH 43212 or phone 614-488-3938 after 1900 EST. (9-7-82)

WANTED: Regency TMR-4 UHF. Unit should be in good working condition. Should include antenna, AC cord & owner's manual. Contact: DAVID R. VAUGHN (OH-127), 1106 Grandview Ave., Columbus, OH 43212 or phone 614-488-3938 after 1900 EST. (10-1-82)

FOR SALE: Info-Tech M-200E. CW/RTTY/ASCII Reader including a Sanyo 9" CRT monitor. This plus a shortwave receiver is all that is required to receive Morse, RTTY & ASCII. $ 500.00 or best offer. Contact: CHRIS DEVENDORF (CA-OR-050), 29261 Buckhaven St., Laguna Niguel, CA 92677. (9-27-82)

FOR SALE: McKay-Dymek DR-33C. 50 khz to 30 mhz receiver including filters for SSB/CW/RTTY. Synthesized w/digital readout to .1 khz. $ 1400.00 or best offer. Contact: CHRIS DEVENDORF (CA-OR-050), 29261 Buckhaven St., Laguna Niguel, CA 92677. (9-27-82)

FOR SALE: Military Surplus. AN-PRC 25. 2 units. Portable transceiver; 30 mhz to 75 mhz; with handsets; no batteries or antenna. One has one tube, other is all transistor. One needs squelch tone reworked. $ 75.00 each plus UPS. Contact: CHUCK O'CONNOR (CA-SC-017), 1833 Germaine Ct., San Jose, CA 95122 or phone 408-279-0548. (8-25-82)

WANTED: GE Receiver 4ER6 Series. Wish to purchase old GE receivers for 40-50 mhz. Contact: CHUCK O'CONNOR (CA-SC-017), 1833 Germaine Ct., San Jose, CA 95122 or phone 408-279-0548. (9-2-82)

WANTED: Whistler RM 55rc. I need a dummy driving lite to match this model radar detector or just a housing from a broken unit will do. Contact: CHUCK O'CONNOR (CA-SC-017), 1833 Germaine Ct., San Jose, CA 95122 or phone 408-279-0548. (9-2-82)

WANTED: Old FCC microfiche for part 90. Contact: REED DARSEY (AL-022), P.O. Box 2123, Mobile, AL 36652. (10-7-82)

FOR SALE: Yaesu FRG-7000 Shortwave Receiver. 250 Khz to 30 Mhz; digital frequency readout; independently switchable filters; excellent condition; outboard variable RF gain control. $ 290.00. Contact: ROBERT L. RANKIN (KS-001), 920 Rockledge Rd., Lawrence, KS 66044 or phone 913-843-3484 between 1900 and 2200 CST. (10-11-82)

FOR SALE: Memcor Inc. RT-505/PRC-25. Complete w/all accessories, including 3 new batteries. Excellent condition. $ 200.00. Contact: BRUCE D. STEWART (AZ-040), 1860 N. Camino de la Cienega, Tucson, AZ 85715 or phone 602-886-7181. (9/8/82)

FOR SALE OR TRADE: General Electric DTO-3 VHF M.T.S. radios. Can be used for monitoring as well as 2-way uses. Have several. Will consider trading for equipment. Send SASE for details. Contact: JEFF HOWELL (KY-023), c/o Lifeline Search & Rescue, P.O. Box 463, Madison, IN 47250. (9-15-82)

FOR SALE: Realistic Pro-2020. $ 225.00. Contact: MICHAEL W. SCHEEL (IA-011), RR 1 Box 221, Walcott, IA 52773. (9-24-82)

WANTED: Scanning monitor equipment, better antenna reception, and NYC frequencies & codes. Contact: E. MENCZER (NY-228), 169 Hooper St., Brooklyn, NY 11211. (9/28/82)

WANTED: Regency crystals for 159.135 & 155.460. Also, weather receiver 162.400 - 162.550 - 162.475. Contact: MARK A. THOMAS, JR. (VA-051), 12163 Nokesville Rd., Bristow, VA 22013 or phone 703-594-2333. (9-22-82)

FOR SALE: Scanner crystals. SASE for list of frequencies. Contact: MARK A. THOMAS, JR. (VA-051), 12163 Nokesville Rd., Bristow, VA 22013 or phone 703-594-2333. (9-22-82)

WANTED: Regency TME 16 HLU or TME 20 HLU. Contact: MARK A. THOMAS, JR. (VA-051), 12163 Nokesville Rd., Bristow, VA 22013 or phone 703-594-2333. (11-4-82)

FOR SALE OR TRADE: Collins/Rockwell AN/ARC-109. 225-399.95 mhz solid state receiver. 3500 channels. Like new condition. Requires electronic experience to operate. $ 325.00/swap. Contact: MICHAEL MURPHY (CA-SD-033), 11621 Valle Vista Rd., Lakeside, CA 92040 or phone 619-561-2726. (9-4-82)

FOR SALE OR TRADE: R-1121/TRC-87. 225-399.95 mhz; 1750 channels; synthesized; solid state. Runs on 24 VDC at 3 amps max. Good condition. $ 250.00. Contact: MICHAEL MURPHY (CA-SD-033), 11621 Valle Vista Rd., Lakeside, CA 92040 or phone 619-561-2726. (9-4-82)

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FOR SALE OR TRADE: Antenna - AS/1404 Collins. 220-400 mhz; weatherproof; light weight. $ 20.00. Contact: MICHAEL MURPHY (CA-SD-033), 11621 Valle Vista Rd., Lakeside, CA 92040 or phone 619-561-2726. (9-4-82)

FOR SALE OR TRADE: AN/URC-68 pocket size receiver/monitor. 38-42 mhz FM / 230-250 mhz AM. Runs on ten AA-size batteries. Good condition (receive only). $ 50.00. Contact: MICHAEL MURPHY (CA-SD-033), 11621 Valle Vista Rd., Lakeside, CA 92040 or phone 619-561-2726. (9-4-82)

FOR SALE: Regency E-106. 10 channel 3 band crystal scanner with some crystals. Excellent condition w/owners manual. $ 75.00 with or without crystals. Contact: DAVID W. GNESS (MA-118), 16 Dow St., Salem, MA 01970. (8-31-82)

WANTED: Regency pocket scanner. Contact: TED ELLINGSON (SD-004), 1051 N. Summit, Madison, SD 57042. (9-7-82)

FOR SALE: Regency ACT-R-106. Includes some crystals; SASE for frequencies. $ 125.00. Contact: SY GOLDBERG (NY-120), 22 Dolores Pl., Malverne, NY 11691 or phone 516-599-5323. (9-19-82)

FOR SALE: Sonar FR-2526. Mint condition; all original accessories & manual. $ 90.00. Contact: SPENCER BAHNER (WA-026), P.O. Box 1432, Olympia, WA 98507 or phone 206-866-1016. (10-10-82)

FOR SALE: Aerotron/60NSET. VHF high band 8 channel scanner w/seven segment channel display; AC/DC; like new. $ 50.00. Contact: SPENCER BAHNER (WA-026), P.O. Box 1432, Olympia, WA 98507 or phone 206-866-1016. (10-10-82)

FOR SALE: Pace 10-4U. 4 channel; 450-470 mhz; good condition; no bracket or power cord; AC/DC. $ 25.00. Contact: SPENCER BAHNER (WA-026), P.O. Box 1432, Olympia, WA 98507 or phone 206-866-1016. (10-10-82)

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FOR SALE: Sonar FR105. 6 channel; needs work - "Technicians Special". $ 20.00. Contact: SPENCER BAHNER (WA-026), P.O. Box 1432, Olympia, WA 98507 or phone 206-866-1016. (10-10-82)

FOR SALE: 12 volt regulated power supply. 2 amp. $ 10.00. Contact: SPENCER BAHNER (WA-026), P. O. Box 1432, Olympia, WA 98507 or phone 206-866-1016. (10-10-82)

FOR SALE: MFJ 1020 Active Antenna. Mint condition; no power supply. $ 65.00. Contact: SPENCER BAHNER (WA-026), P.O. Box 1432, Olympia, WA 98507 or phone 206-866-1016. (10-10-82)

FOR SALE: MFJ 752B Signal Enhancer. Dual audio filter; mint condition; no power supply. $ 75.00. Contact: SPENCER BAHNER (WA-026), P.O. Box 1432, Olympia, WA 98507 or phone 206-866-1016. (10-10-82)

WANTED: I need schematic diagrams on Bearcat 250, 220, 210 and JIL SX-200 scanners. Send COD and I will pay reasonable price. Contact: RALPH QUEENER (KY-036), Rt. 4, Box 63-A, Arjay, KY 40902 or phone 606-337-6282. (10-19-82)

WANTED: Vertical antenna (stick type) made by Antenna Specialist, Francis or Shakespeare, must be able to be cut to the frequency of 33.900 mhz; fiberglass or metal. Let me know what you have & price. Contact: DENNIS RUDA (NY-057), 42 Harry L Dr., Johnson City, NY 13790 or phone 607-797-4394. (10-24-82)

FOR SALE OR TRADE: Russell DIGI-10 10 channel VHF Hi-Lo pocket scanner. Two months old. Asking $ 100.00 or will trade for Regency TME 16-H/L/U, TME 16-H/L, TME-8-H/L/U or similar Regency crystal type scanner in good condition. Contact: RICHARD STEDMEN (MA-071), 45-611 Willow St., Springfield, MA 01103 or phone 413-739-5999. (9-8-82)

FOR SALE: Sony ICF-2001. Excellent condition; only 4 months old; original owner. $ 225.00. Contact: DAVID N. SILVA (MA-008), RFD Box 492, Vineyard Haven, MA 02568 or phone 617-693-5728. (10-12-82)

FOR SALE: Radio Shack 2020. Excellent condition; all hardware; original box. Will ship via UPS. $ 200.00. Contact: LEWIS S. HARVEY (GA-008), 415 E. Hall St., Savannah, GA 31401. (10-12-82)

WANTED: Bearcat 5 or similar that will receive the 800 mhz band (800-860 at least). Send asking price, condition, age, and available accessories. Contact: SCOTT GLICKER (FL-033), P.O. Box 17255, Plantation, FL 33318. (10-6-82)

FOR SALE: Regency D-300. 5 band 30 channel programmable scanner. Excellent condition w/antenna, DC cord, manual & original box. Includes shipping & insurance. Plus schematic. $ 190.00. Contact: JOHN R. TREMENTOZZI (MA-104), phone 617-361-0839. (9-1-82)

photo department

Send photographs of custom monitor listening posts, unusual or extensive monitor or two-way antenna systems, user station consoles (PD, Fire, Paramedics, etc.) or other monitor/two-way related equipment of interest. Photographs must be 3 x 5 inches or larger, black-and-white with good contrast, sharply focused and attractively composed. Each photo must be accompanied by details and explanations of equipment. Photos will not be returned. If you have questions, write first and please include an SASE. Send photos or write to:

Hugh Stegman, 11622 Exposition Blvd., #2, Los Angeles, CA 90064

This month we are fortunate to have some excellent photos taken by Ed Sirovy (IL-004) last June 19th, when his Chicago-Midwest RCMA Chapter toured the Illinois State Toll Highway HQ in Oak Brook. This system, as described in the Dec. '81 Newsletter, controls 2-way police and highway radio, plus telephone carrier microwave.

First, a wide shot shows the overall layout. Those who saw Ed's pics of the Chicago FD setup last February may feel deja vu. Again we have Motorola Centracom consoles, 800 meg and microwave gear, and DEC computers. However, Ed notes that the FD facility is still not up after four years, while Tollroad is fully operational.

Behind the supervisory console is the one for police dispatch, plus one for road service/maintenance. There are no maps, as IL state centers don't use them.

Next we move closer on a console, then on one operating position. Each service uses only one position, except on busy days when the console is split into two preplanned zones and the second is manned. Splits are flexible in special circumstances.

14 855/856 MHz channels are in use, with 13 remote sites. High and low band State Police frequencies are provided, plus the 9 old 453 MHz freqs which are being simulcast during their two-year phaseout. Reciever voting lights are also displayed.

Big outboard CRT's and printers connect with TIPS, the ISP's Trooper Information System, plus its LEADS sub-system for all IL agencies. Data includes unit assignments, trooper payroll, days off, and NLETS-NCIC interface. Ed states that security keeps Podunk PD out of the payroll. Console CRT's are for the future Tollroad CADS, which will interface TIPS.

We'll have to view the computer and equipment rooms next month, due to our limited space. They have some interesting stuff. Thanx to Ed and the Chicago chapter, and remember - YOU WRITE THIS COLUMN. 73; I'm QRT.

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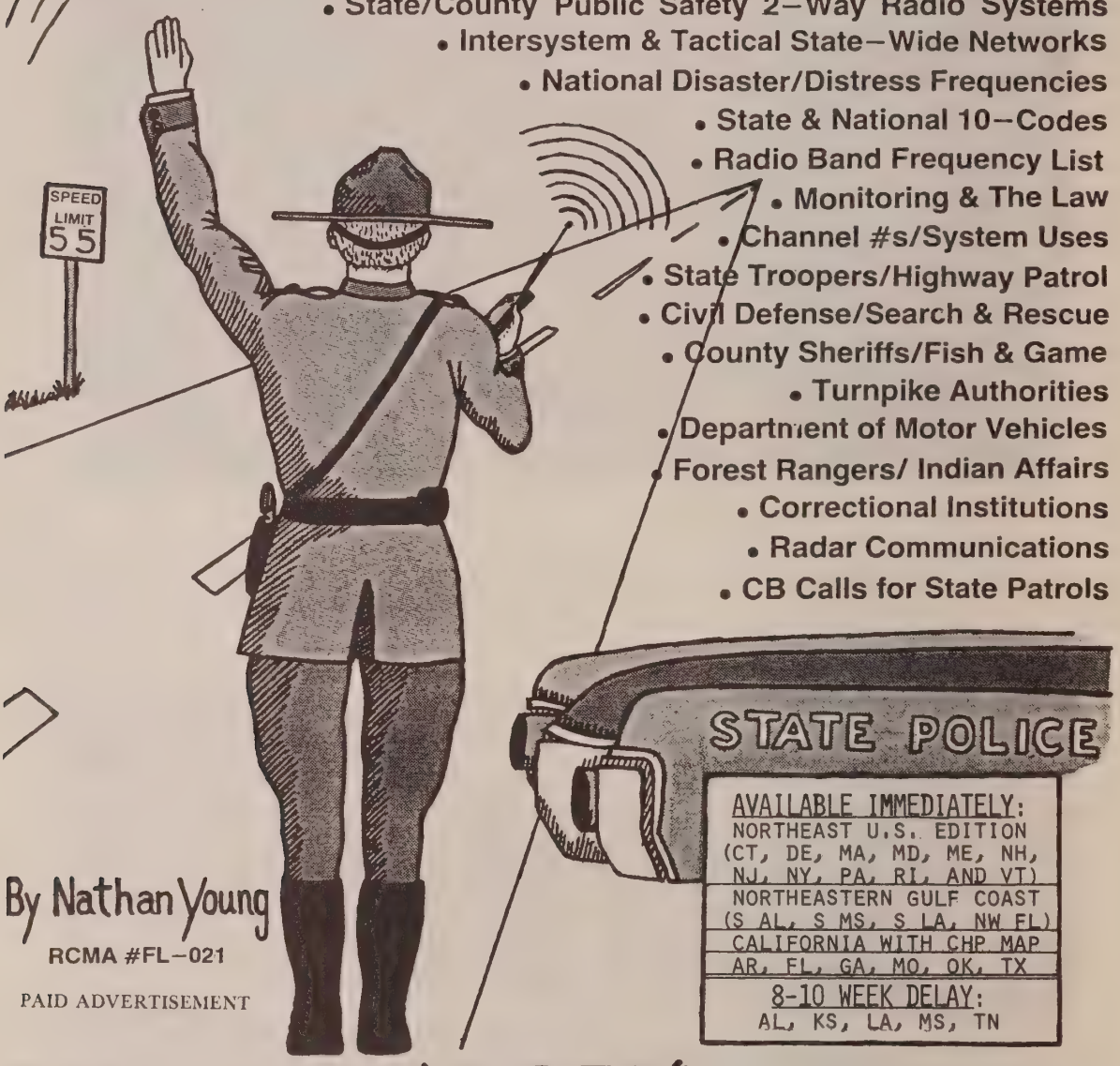

By Nathan Young

RCMA #FL–021

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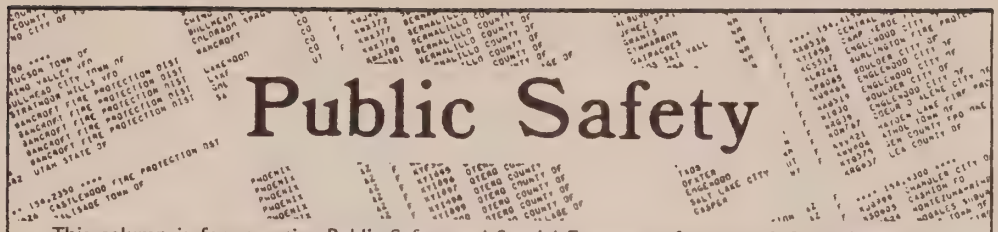
DEALER INQUIRIES ARE INVITED



Public Safety

This column is for reporting Public Safety and Special Emergency frequency information, radio system details, radio codes, dispatch areas, unit numbering systems, etc. for police; sheriff, fire, forestry (except USFS), fish and game, highway patrol, state police, prisons, prisoner work camps, local government, highway & street maintenance, port authority/bridge maintenance, animal control, ambulances, paramedics, hospitals, life guards, ski patrol, search & rescue, flood control, civil defense and disaster organizations. Input and questions for this column must be sent to the proper regional Public Safety editor listed below.

PUBLIC SAFETY — GREAT LAKES:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Illinois, Indiana, Wisconsin, Michigan, Kentucky, and Ohio:

Brandt Niemuth, P.O. Box 541, Rosemont, IL 60018

Happy New Year to one and all....

I trust everbody got at least part of what they wanted for Xmas as this is being written in late October. To start the New Year off, we'll cover Wisconsin with the exception of:

From John (IL-012) - the former editor of this column - reports that the Livingston Co Ill SD can be found on the new freq of 39.24 with regular operations. 39.50 is apparently used for car-to-car and standby use only.

Carl (WI-054) reports that the Wisconsin statewide fire freq 154.295 has been named FIRECOM (Fire Interagency Radio Emergency Communication). A plan for use of the freq is under development and all fire depts in the state will be encouraged to have mobile radios on this freq. The state's Dept of Natural Resources has mobiles on the freq and will be adding it to their aircraft radios. Also from Carl (WI-054) is the communication systems in use Washington Co, Wi agencies:

1. Law enforcement agencies (8-channel mobiles)

F1	155.250	Tx/Rx	Hartford (also Kewaskum during the day. West Bend has a base on this feq)
F2	155.475	Tx/Rx	WISPERN
F3	155.535	Tx/Rx	Germantown (except West Bend)
F3	155.880	Tx/Rx	West Bend
F4	155.595	Tx/Rx	Rptr talkaround
F5	154.950	Tx	Washington Co SD rptr
	155.595	Rx	
F6	154.950	Tx	Ozaukee Co SD rptrt (has
	155.595	Rx	different PL)
F7	155.370	Tx/Rx	Intersystem (Point-Point)
F8	153.905	Tx	Washington Co SD rptr - DVP
	155.250	Rx	(Sheriff's cars only)

2. County and Hartford paging (includes police, fire, EMS and govt) can be found on 158.835
3. The county fire network can be found on 46.20
4. Unit numbering series:
   - 100 Misc units - Coroner, Emergency Govt, Wardens
   - 200 Sheriff's communications & correction personnel
   - 300 Sheriff's administrative personnel
   - 400 Sheriff's operations personnel (401=Sheriff; 405-413=Capt, Lieuts, Sgts; 420-424=Detectives; 430-460=Patrolmen)

500 Village PD's and Sheriff's Special Deputies
600 Hartford PD
700 Germantown PD
800 Kewaskum PD
900 Ambulances
1100 Slinger PD (future)
1200 Jackson FD
1300 Allenton PD
1400 Newberry FD
1600 Hartford FD
1700 Germantown FD
1800 Kewaskum FD
1900 Richfield FD
2100 Slinger FD
2200 Fillmore FD
2300 Boltonville FD
2400 Kohlsville FD
2500 St Lawrence FD
2600 Cedar Lake FD
2700 Bark Lake FD
2800 Freiss Lake FD
2900 Lake Five FD

Fire unit numbering is further broken down as follows (Last two digits): 00=Station; 01=Cheif; 02=1st Asst Cheif;03=2nd Asst Cheif; 50=Rescue; 60=Pumper; 70=Aerial Ladder;80=Mini-Pumper/Utility;90=Tanker.

Carl, thanks are in order for a most comprehensive contribution.

Ernst (WI-034) has supplied info on Jefferson Co Wi law enforcement communications:

154.860 B/ 158.900 M Sheriff's Dept (An "optional" rpter using this freq pair is available)
154.860 B/M Police Depts
155.145 B/M Sheriff's Dept "Channel 3"

Also from Ernst (WI-034) is news of a new communication system for the Wauwatosa Wi PD & FD. A total of 8 channels will be involved. 2 new channels will be made available for the FD(one for "general"dispatch" and one for "on scene communication"). 2 new channels will be made available for the PD(one for "general dispatch" and one for "special event"). Present FD freqs include 154.070 ("dispatch" and "on scene") and 154.295 (mutual aid). Present PD freqs include 158.790 (general dispatch), 158.910 (special events - mainly mobiles), and 155.370 (intersystem - base only).

From Scott (WI-039) and Tom (WI-006) comes info on the Wisconsin State Police high band radio system;

District 1	154.680 B	
2	155.445 B	
3	154.935 B	
4	155.445 B	
5	154.905 B	
6	154.680 B	
8	154.905 B	159.450 M

These would be in the F-1 position in 4 channel radios with the following break down;

F-2 Simplex on base freq
F-3 Statewide 151.280
F-4 WISPERN 155.475

So far, only WSP Dist-8 units are equipped with the new 4 channel VHF radios. District 1 thru 6 are still e/w low band radios. Included is the Wisc state map showing all 7 districts and boundaries.
Thanks to Ernst, Scott, & Tom for these contributions.

Until next time,
Happy Monitoring.

DOUGLAS
BAYFIELD
ASHLAND
IRON
VILAS
WASHBURN
SAWYER
BURNETT
PRICE
FOREST
FLORENCE
ONEIDA
MARINETTE
POLK
BARRON
RUSK
LINCOLN
LANGLADE
OCONTO
TAYLOR
CHIPPEWA
ST. CROIX
DUNN
MARATHON
MENOMINEE
CLARK
SHAWANO
DOOR
PIERCE
EAU CLAIRE
PEPIN
WOOD
PORTAGE
WAUPACA
KEWAU-NEE
BUFFALO
TREMPEA-LEAU
OUTAGAMIE
BROWN
JACKSON
JUNEAU
ADAMS
WAUSHARA
WINNEBAGO
CALUMET
MANITOWOC
MONROE
LA CROSSE
MARQUETTE
GREEN LAKE
FOND DU LAC
SHEBOYGAN
VERNON
SAUK
COLUMBIA
DODGE
WASHING-TON
OZAU-KEE
RICHLAND
CRAWFORD
DANE
IOWA
JEFFERSON
WAUKESHA
MIL-WAU-KEE
GRANT
LAFAYETTE
GREEN
ROCK
WALWORTH
RACINE
KENOSHA
1
2
3
4
5
6
8
COUNTY OUTLINE
WISCONSIN
Scale of Miles
0 10 20 30 40 50

PUBLIC SAFETY — NORTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — New England states, New York, Pennsylvania, New Jersey, Maryland, Delaware and District of Columbia:

Richard Barnett, P.O. Box 428, Newton Highlands, MA 02161.

Once again, greetings from the northeast! This month no foreplay. We're just going to go right to the good stuff with a report from Paul Bastian by means of John Breen.

Pennsylvania

BUREAU OF FORESTRY
RADIO IDENTIFIERS

DISTRICT NUMBER	PHONETIC IDENTIFIER	BASE STATION IDENTIFIER	DISTRICT NUMBER	PHONETIC IDENTIFIER	BASE STATION IDENTIFIER
1	ALPHA	FAYETTEVILLE	11	LIMA	SCRANTON
2	BRAVO	MCCONNELLSBURG	12	MIKE	SOUTH WILLIAMSPORT
3	CHARLIE	BLAIN	13	NOVEMBER	EMPORIUM
4	DELTA	LIGONIER	14	PAPA	WARREN
5	ECHO	HUNTINGDON	15	ROMEO	COUDERSPORT
6	FOXTROT	EBENSBURG	16	SIERRA	WELLSBORO
7	GOLF	MIFFLINBURG	17	TANGO	BUCKTOWN
8	HOTEL	CLARION	18	VICTOR	CRESSONA
9	JULIETTE	CLEARFIELD	19	WHISKEY	STROUDSBURG
10	KILO	RENOVO	20	XRAY	BLOOMSBURG

HARRISBURG OFFICE - FORESTRY

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES
Mobile Relay Frequency Data

May 1, 1982

Trans. Freq. Mll/Z	Rec. Freq. Mll/Z	Trans. Tone Hz	Rec. Tone Hz	Location Lat. & Long. o ' "	Call Sign Inv. #	Site Name Exp. Date	MSL Feet	Ant. Gain DB	Ant. Ht. Feet	RF. Out Put	Tower Ht. Feet	Ant. Type Radiation Direction
151.175	159.255	103.5	141.3	39 59 13 77 24 17	KWI699 2318	Big Flat 1/8/84	2043	5.25	120	90	100	Collinear OMNI
151.175	159.255	114.8	114.8	40 54 54 78 00 36	KVN571 2563	Rattlesnake 2/28/83	2415	5.25	110	100	90	Collinear OMNI
151.175	159.255	114.8	103.5	41 06 38 78 31 50	KDY285 0977	Rockton 3/23/83	2391	5.25	120	120	100	Collinear OMNI
151.175	159.255	114.8	127.3	41 23 53 77 51 15	KQN935 1086.87	Tamarack 1/28/87	2200	5.25	120	120	100	Collinear OMNI
151.175	159.255	114.8	156.7	41 03 04 77 22 34	KQN936 1088.89	Rainsares 9/6/84	2293	5.25	80	120	60	Collinear OMNI
151.175	159.255	156.7	88.5	41 42 54 75 33 43	KFZ745 0979	Elk Mt. 1/28/87	2693	5.25	81	120	60	Collinear OMNI
151.175	159.255	156.7	173.8	41 01 22 75 54 48	KV0922 0177	Freeland 3/2/84	2005	7.5	75	60	80	Cor. Ref North
151.175	159.255	103.5	110.9	39 55 30 77 57 21	KLS512 2319	Tuscarora 2/6/84	2320	5.25	100	90	80	Collinear OMNI
151.175	159.255	103.5	136.5	40 00 49 78 33 21	KWI698 2320	Kinton Knob 1/8/84	2642	5.25	100	90	80	Collinear OMNI
151.175	159.255	114.8	192.8	40 43 22 77 07 20	KZF969 2564	Beaver 1/13/86	2080	5.25	100	120	300	Collinear OMNI

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES
Mobile Relay Frequency Data
July 1, 1982

Trans. Freq. MH/Z	Rec. Freq. MH/Z	Trans. Tone Hz	Rec. Tone Hz	Location Lat. & Long. o ' "	Call Sign Inv. #	Site Name Exp. Date	MSL Feet	Ant. Gain DB	Ant. Ht. Feet	RF. Out Put	Tower Ht. Feet	Ant. Type Radiation Direction
151.295	159.360	141.3	141.3	40 17 40 78 34 25	KVN570 2821	Blue Knob 8/30/83	3040	5.25	130	60	110	Collinear OMNI
151.295	159.360	141.3	156.7	40 23 10 78 58 11	KF0902 1337	Lower Yoder 1/28/87	2720	5.25	104	120	86	Collinear OMNI
151.295	159.360	114.3	94.8	41 30 30 77 17 10	KVN642 1339	Hemingway 2/28/83	2070	7.5	135	120	130	Cor. Ref. South
151.295	159.360	173.8	173.8	41 24 01 78 41 33	KTI717 0396	Boot Jack 12/8/86	2206	5.25	93	60	70	Collinear OMNI
151.295	159.360	173.8	192.8	41 24 30 78 06 28	KVJ546 0176	Brooks 12/8/86	2169	5.25	100	60	125	Collinear S.W.
151.295	159.360	173.8	136.5	41 48 46 78 23 53	KVJ548 2175	Prospect 4/8/87	2434	5.25	200	90	180	Collinear OMNI
151.295	159.360	173.8	110.9	41 52 12 77 39 31	KVT591 2174	Hector 7/26/83	2540	7.5	95	90	100	Cor Ref. S.W.
151.295	159.360	173.8	88.5	41 24 10 77 51 35	KVN641 2096	Tamarack 7/26/83	2200	7.5	105	90	100	Cor Ref. North
151.295	159.360	114.8	103.5	41 01 22 75 54 48	KDX454 0139	Freeland 1/28/87	2000	5.25	98	60	80	Collinear OMNI
151.295	159.360	114.8	114.8	41 19 12 76 33 10	KDX455 0154	North Mt. 3/10/87	2593	5.25	78	60	60	Collinear OMNI
151.295	159.360	114.8	127.3	40 45 25 76 30 50	KDX453 0029	Boyers 12/14/86	1805	5.25	65	60	47	Collinear OMNI
151.295	159.360	141.3	186.2	41 05 03 78 32 58	WQD459 3196	Pine 9/15/85	2380	5.25	160	120	200	Collinear OMNI

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES
Mobile Relay Frequency Data
July 1, 1982

Trans. Freq. MH/Z	Rec. Freq. MH/Z	Trans. Tone Hz	Rec. Tone Hz	Location Lat. & Long. o ' "	Call Sign Inv. #	Site Name Exp. Date	MSL Feet	Ant. Gain DB	Ant. Ht. Feet	RF. Out Put	Tower Ht. Feet	Ant. Type Radiation Direction
151.385	159.420	127.3	103.5	40 20 47 79 13 34	KQ0251 1174.77	Bear Cave 1/28/87	2630	5.25	80	120	80	Collinear OMNI
151.385	159.420	127.3	127.3	39 46 57 79 42 06	KQ0253 1175.78	Pondfield 1/28/87	2778	5.25	100	120	80	Collinear OMNI
151.385	159.420	127.3	156.7	39 48 23 79 10 24	KQ0252 1176.79	Negro Mt. 12/8/86	3186	5.25	120	120	100	Collinear OMNI
151.385	159.420	88.5	88.5	41 30 30 77 17 10	KVV850 2451	Hemingway 7/26/83	2070	7.5	135	90	130	Cor. Ref. North
151.385	159.420	103.5	88.5	40 05 17 76 00 10	KLU444 2176	Welsh Hill 1/28/87	1003	7.5	130	80	110	Collinear OMNI
151.385	159.420	103.5	94.8	40 31 48 75 20 57	KQL752 2298	Flint Hill 1/28/87	1006	5.25	110	80	140	Cor. Ref. South
151.385	159.420	103.5	173.8	40 27 39 76 41 28	KFX266 0271	Ellendale 1/18/87	1660	5.25	160	60	140	Collinear OMNI
151.385	159.420	103.5	114.8	40 51 00 76 04 51	KFX265 2374	Bear's Head 1/28/87	2100	5.25	80	90	80	Collinear OMNI
151.385	159.420	103.5	156.7	41 17 57 75 07 26	KDX447 0313	High Knob 1/28/87	2062	5.25	42	60	20	Collinear OMNI
151.385	159.420	103.5	103.5	41 01 40 75 30 34	KF1584 0099	Pohopoco 1/28/87	2215	5.25	107	60	80	Collinear OMNI
151.385	159.420	88.5	88.5	41 40 51 76 28 52	KZF970 2452	Kellogg 1/23/86	2125	5.25	130	90	110	Collinear OMNI
151.385	159.420	103.5	192.8	39 57 43 75 09 45	WQD458 3198	Philadelphia 9/15/85	55	5.25	192	120	172	Collinear OMNI
151.385	159.420	127.3	141.3	40 06 53 79 12 13	WQD460 3199	Bald Knob 9/15/85	2930	5.25	146	120	150	Coll

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES
Mobile Relay Frequency Data
July 1, 1982

Trans. Freq. MH/Z	Rec. Freq MH/Z	Trans. Tone Hz	Rec. Tone Hz	Location Lat. & Long. o ' "	Call Sign Inv. #	Site Name Exp. Date	MSL Feet	Ant. Gain DB	Ant. Ht. Feet	RF. Out Put	Tower Ht. Feet	Ant. Type Radiation Direction
151.385	159.420	127.3	186.2	40 38 16 80 07 35	KNBT576 3197	WEXFORD 12/4/86	1200	5.25	100	120	110	Collinear OMNI
151.400	159.345	156.7	156.7	40 21 30 77 32 45	KQU276 0978	Big Knob 1/28/87	2140	5.25	240	120	220	Collinear OMNI
151.400	159.345	156.7	192.8	40 45 07 77 45 19	KTU257 2053	Little Flat 4/8/87	2420	5.25	100	120	80	Collinear OMNI
151.400	159.345	156.7	94.8	40 17 35 77 58 00	KTU254 2054	Jacks 4/8/87	2360	5.25	100	120	80	Collinear OMNI
151.400	159.345	103.5	103.5	41 21 16 79 26 05	KSQ442 1341	Fryburg 8/26/85	1835	5.25	85	120	65	Collinear OMNI
151.400	159.345	103.5	114.8	41 44 38 78 52 30	KWV591 0207	Gibbs Hill 8/10/84	2130	5.25	160	60	140	Collinear
151.400	159.345	103.5	127.3	41 40 00 79 50 17	KSZ840 0123	Townville 4/22/86	1720	5.25	140	60	120	Collinear OMNI
151.400	159.345	103.5	156.7	40 57 35 80 17 35	KXA325 2373	New Castle 4/22/86	1475	5.25	70	100	80	Collinear OMNI
151.400	159.345	103.5	136.5	41 56 25 80 03 23	WQD462 3200	Waterford 9/15/85	1620	5.25	120	120	120	Collinear OMNI
151.400	159.345	103.5	173.8	40 26 53 79 09 30	WQD461 0180	Penn View 9/15/85	2040	9.0	80	60	140	YASI N.N.W.

PAID ADVERTISEMENT

PUBLIC SAFETY — NORTH CENTRAL:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Iowa, Kansas, Missouri, Nebraska, N. Dakota, S. Dakota, and Minnesota:

Michael W. Scheel, RR #1, P.O. Box 221, Walcott, IA 52773

Welcome to PS-North Central. No sooner had I mailed last months column. I found that Scott County (IA) has moved to a new channel. Scott County 453.850 458.850 RP PH KNFF501. Another bit of info that I found is Iowa DOT local officals have phonepatch ability on F1 & F2.

Additional Information about Paramedics in Davenport,IA. The Bettendorf School District has disappeared from 462.950 RP. Davenport PD is dispatching the paramedics on it. Mercy Hospital to paramedics is on MED-4 463.075/468.075 BM. No other Med channels are being used at this time.

Davenport Hospital Ambulance Corp.

Medic 1 Mercy Hosp.
Medic 2 Mercy Hosp.
Medic 3 St. Luke's Hosp.
Medic 4 St. Luke's Hosp. (routine transfers)

Still on the topic of EMS we have a article by Mike Bumgarner (IA-024)

State of Iowa EMS Radio System

The state of Iowa's system is based on VHF high band. Some localities with Paramedic service have UHF.

Mobile Radio Plan

Ch 1 155.340 "Common Calling"
Ch 2 assigned Regional EMS Freq.

Ch 3 Local Ambulance operations dispatch frequency
Ch 4 155.475 Mutual Aid

Ch 1 Common calling is the statewide Ems Frequency. According to the plan, ambulances will use this channel when talking to a hospital outside their region.

Ch 2 The regional EMS channel is the primary frequency for a given region whose boundaries are determined by the state. This in theory, relieves congestion on 155.340. It also provides rural ambulances with a common channel linking them for medical control by a physican in one location. The ambulance can still take the patient to the hospital of his choice. The frequency usaually be found in Police Call as a special emergency freq. assigned to a hospital in a region.

Ch 3 A local dispatch channel is usually used for dispatching since the FCC frowns on paging on special emergency frequencies. Ours is a local government channel (155.835), others are business. (some are the rural fire channels. ed)

Ch 4 Most VHF high radios from public services have Mutual Aid in position number 4 as an emergency channel. This is used to communicate with State Troopers, for example. The State of IOWA is discouraging everyday use of this channel, and trying to encourage amblances to use the state repeater channel LEA. Not much ambulance traffic is heard on that channel, possibly because it would take three separate channels in a radio for Statewide coverage.

Statewide, Most locations have 4 channel scanning radios with multiple squelch tones and a telephone-type dialer. Southeastern services recently purchased, with Federal matching funds, 8 channel Motorola Micor 100 watt radios.

Hospital Base Stations

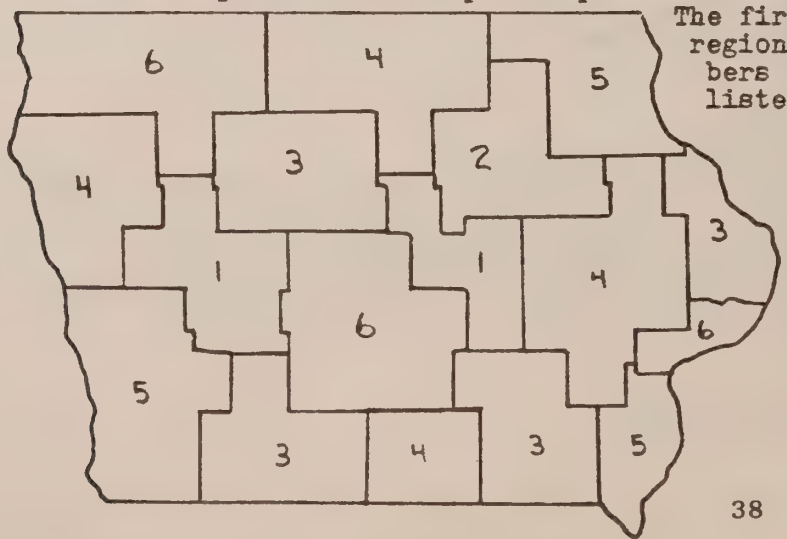
Most Hospitals are equipped with two channel Vhf highband radios. Channel 1 is 155.340 while channel 2 is the regional EMS frequency. Older systems are "Double guarded". This means the mobile radio must broadcast the correct squelch access tone in addition to a correct dial pulse tone for that hospital. An emergency squelch tone will open the radio, but all other EMS radios in the area as well. Newer systems will receive traffic with either the dial pulse tone or the emergency squelch tone. Hospitals are equipped with dialers for emergency hospital to hospital radio traffic.

Helicopters

"Lifeflight"out of Des Moines is equipped with 155.340
(also Helicopter to Iowa Methodist HQ on 155.175. ed)
"Aircare"out of Iowa City has 155.340 & 155.475
(also has 155.160,155.175,155.205,155.220,155.235,155.400 & 154.280. ed)
"Lifeguard" out of Cedar Rapids uses 155.220,155.475,155.340.(ed)

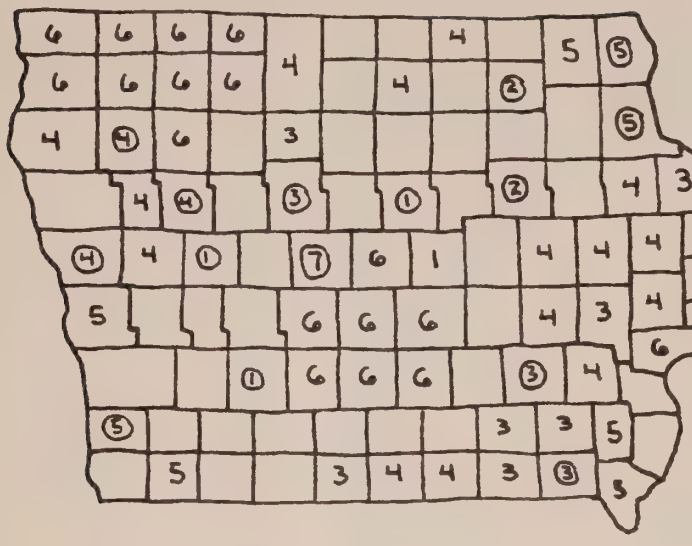
That is a very fine article Mike, hope you can continue with more.

I have two maps that can help to explain the state EMS plan.



The first map shows the EMS regions as planned. The numbers refer to the freqs listed below.

1--155.160
2--155.175
3--155.205
4--155.220
5--155.235
6--155.400
7--155.325*



The second map shows how the plan is taking shape. The numbers circled are unverified. The counties with are blank are using 155.340.

Some ambulances use the Sheriff F1, as channel 3.

C-MED location
Cedar Rapids C-MED
Johnson County C-MED
Central Iowa C-MED*
(*Des Moines)

Until next month
73.

-30-

PUBLIC SAFETY — SOUTH CENTRAL:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Alabama, Arkansas, Louisiana, Mississippi, Tennessee, Oklahoma, and Texas:

Ken Pehl, 108 E. Centre St., Fredericksburg, Texas 78624.

Happy New Year, everyone! I want to wish everyone a very joyous and prosperous year. May this be the year you accomplish great things in your life. I trust the holiday went well for everyone and that your dream scanner was under the Christmas tree.

In order to keep the RCMA's treasury funds within budget for the coming year, all editors have been asked to cut their column for a few months. So this col. is also going to be short to contribute to the cause. But the budget is not the only thing that is tight this month--my time to prepare this column is also in short supply, so all this works out for the best.

To start off the first column of the new year, Randy Grimes, MO-77 has sent along some interesting facts that I feel are of importance to area members. Randy has discovered that the State of Arkansas already has a law on the books making it illegal to own, possess, or use a voice descrambler/decoder device by private individuals. (Arkansas Criminal Code 41-2855 adopted April 9, 1975.) I will leave it to the "Monitor & The Law" editor to reprint this statute in a forthcoming issue, since this is his editorial responsibility. Thanks, Randy, for letting us know about this important piece of news.

Since the subject of various laws concerning our hobby has been brought up, I wish to also point out that in September, 1982, the "Communications Technical Amendments Act of 1982" was signed into law by the President. This bill provides for many changes and additions to different aspects of the existing communication laws, rules, and regulations. Among the many, many provisions of the bill, the bill includes a minor revision to Section 605 of the Communications Act to now exclude Amateur and CB transmissions from being kept confidential. (Section 605 is, of course, the "Secrecy of Communication's Content" law under which all monitorists are obligated to not divulge anything they hear on their receivers.)

The purpose of this change is to facilitate a new self-enforcement policy for Amateurs and CB'ers regarding rule and regulation violators. This change, in itself, will have little, if any, direct affect on our monitoring legality. The bill also adds a new provision making it illegal to manufacture, advertise, sell, possess, or use any "electronic device" that could violate any FCC rule, and (by my own interpretation) any device capable of decoding any radio licensee' transmissions. While specifically aimed at pay-TV decoder vendors, this part of the bill is worded very broadly and very general. Will this eventually affect monitorists? I do not have the answer. Only time will tell, I suppose. The courts of law have already ruled on a number of cases recently, prohibiting, based on the old Section 605 provisions, by inference, the sale and use of microwave receivers (and the electronic hardware to build them) used to pick up MDS and a few other satellite originated/distributed video programming. These are viewed by the FCC and the courts as "non broadcast" (not for general public use) type of transmissions. While these cases have involved the so-called "video pirates", could the courts conceivably rule the monitoring of private two-way radio transmissions are likewise illegal, based upon the newly revised Section 605, which now has more clearly worded provisions? The actions of Congress made the intent of Section 605 clear. Since most of the club's listening activity involves the "non broadcast" type of radio activity, the next step isn't so very impossible to happen. Has "1984" arrived for monitorists?

That concludes my editorial for this month. Let me state that I am not a lawyer nor am I acquainted deeply with the law. My particular interpretations are my own and not that of the RCMA or others. I do hope I am just a pessimist and paranoid about the matter and nothing adverse will result. I would assume the "FCC Topics" editor and other related editors are checking into this further, and further reports will be published in the future newsletters. For those interested in further details as I have them, please check the following amateur radio publications: The W5YI Report, September 15, 1982 issue (pp1--5) and CQ Magazine, October, 1982 issue (p96).

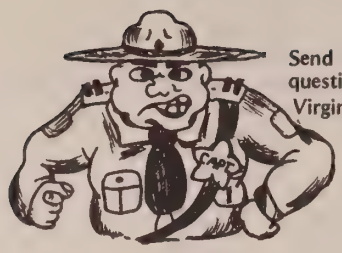
Now I will step down from my soapbox and finish off the column with Part Two of Dave Litsinger's roster of SDHPT base station ID numbers as begun last month. We will close off with an invitation to next month's column when we'll have Part Three of Dave's roster along with other reports, space permitting. See you then!!

THD NO	LOCATION	DIST	FCC NO	CHANNEL
142	FORT WORTH	2	KKV284	AD-AD
143	GLEN ROSE	2	KAU692	AD-AD
144	GRANBURY	2	KFB876	AD-AD
145	JACKSBORO	*2	KAU691	AD-AD
146	MINERAL WELLS	2	KAV721	AD-AD
147				
148	STEPHENVILLE	2	KKV285	AD-AD
149	WEATHERFORD	2	KKV283	AD-AD
150	WHITE SETTLEMENT	2	----	-A
151	ARCHER CITY	3	KFZ758	AB-AB
152	BOWIE	3	KKV279	AB-AB
153	ELECTRA	3	KFZ759	AB-AB
154	GAINESVILLE	3	KLA202	AB-AB
155	GRAHAM	3	KDF564	AB-AB
156	HENRIETTA	3	KFZ760	AB-AB
157	NOCONA	3	----	-A
158	OLNEY	3	KKV280	AB-AB
159	SEYMOUR	3	KCV338	AB-AB

THD NO	LOCATION	DIST	FCC NO	CHANNEL
160	THROCKMORTON	3	KIZ685	AB-AB
161	VERNON	3	KKV281	AB-AB
162	WICHITA FALLS	3	----	-A
163	WICHITA FALLS	3	KKV282	AB-AB
164	BELTON	9	KKV276	AB-AB
165	GATESVILLE	9	KAQ275	AB-AB
166	HAMILTON	9	KKV277	AB-AB
167	HILLSBORO	9	KKV278	AB-AB
168	MARLIN	9	KAY837	AB-AB
169	MERIDIAN	9	KKZ521	AB-AB
170	FORT PARKER	9	KKZ520	AB-AB
171	TEMPLE	9	KAY836	AB-AB
172	WACO	9	KKV275	AB-AB
173	BRONSON	11	KLB303	AB-AB
174	CENTER	11	KKV287	AB-AB
175	CROCKETT	11	KKV273	AB-AB
176	GROVETON	11	KLB304	AB-AB
177	LIVINGSTON	11	KKV274	AB-AB
178	LUFKIN	11	KKV272	AB-AB
179	LUFKIN	11	KLB302	AB-AB
180	NACOGDOCHES	11	KLB299	AB-AB
181	SAN AUGUSTINE	11	KLB301	AB-AB
182	SHEPHERD	11	KLB300	AB-AB
183	BRENHAM	17	KAQ889	AB-AB
184	BRYAN	17	KCQ261	AB-AB
185	BRYAN	17	KKV271	AB-AB
186	BUFFALO	17	KKV270	AB-AB
187	CALDWELL	17	KAQ892	AB-AB
188	CAMERON	17	KKV269	AB-AB
189	FAIRFIELD	17	KKZ766	AB-AB
190	HEARNE	17	KAQ891	AB-AB
191	HUNTSVILLE	17	KKV268	AB-AB
192	MADISONVILLE	17	KAR820	AB-AB
193	NAVASOTA	17	KAQ890	AB-AB
194	CORSICANA	18	KKV266	AB-AB
195	DALLAS	18	KKV267	AB-AB
196	DENTON	18	KKV265	AB-AB
197	ENNIS	18	KAR310	AB-AB
198	KAUFMAN	18	KAR309	AB-AB
199	MCKINNEY	18	KAR313	AB-AB
200	ROCKWALL	18	KAR308	AB-AB
201	WAXAHACHIE	18	KKV288	AB-AB
202	BRADY	23	KKV262	AB-AB
203	BRECKENRIDGE	23	KAP756	AB-AB
204	BROWNWOOD	23	KKV263	AB-AB

THD NO	LOCATION	DIST	FCC NO	CHANNEL
205	COLEMAN	23	KBG758	AB-AB
206	COMANCHE	23	KBG763	AB-AB
207	DE LEON	23	----	-A
208	EASTLAND	23	KKV519	AB-AB
209	GOLDTHWAITE	23	KKV264	AB-AB
210	LAMPASAS	23	KAP755	AB-AB
211	SAN SABA	23	KCN229	AB-AB
212	ELEPHANT MT.	24	KKV449	AB-AB
213	FRANKLIN MT.	24	KKV454	AB-ABCE
214	FORT DAVIS	24	KTE440	AB-AB
215	MARFA	24	KDG860	AB-AB
216	PINE SPRINGS	24	KKV452	AB-AB
217	SIERRA BLANCA	24	KKV451	AB-AB
218	VAN HORN	24	KKV450	AB-AB
219	BONHAM	1	KLA382	AB-AB
220	CLARKSVILLE	1	KKZ828	AB-AB
221	COOPER	1	KKZ829	AB-AB
222	EMORY	1	KKW533	AB-AB
223	GREENVILLE	1	KKZ830	AB-AB
224	MOUNT VERNON	1	KKZ832	AB-AB
225	PARIS	1	KKW531	AB-AB
226	SHERMAN	1	KKW532	AB-AB
227	SULPHUR SPRINGS	1	KKZ831	AB-AB
228	ANDREWS	6	KKW530	AB-AB
229				
230	BALMORHEA	6	KEX304	AB-AB
231	CRANE	6	KDE262	AB-AB
232	AUSTIN	D-4	KRS235	U-U
233	FORT STOCKTON	6	KKW528	AB-AB
234	IRAAN	6	KTB308	AB-AB
235	KERMIT	6	KDJ546	AB-AB
236	MCCAMEY	6	KKW595	AB-AB
237	MIDLAND	6	KCI573	AB-AB
238	MONAHANS	6	KLA805	AB-AB
239	ODESSA	6	KKW527	AB-AB
240	PECOS	6	KKW772	AB-AB
241	SANDERSON	6	KCY225	AB-AB
242	STANTON	6	KDU499	AB-AB
243	BANDERA	15	KAU708	AB-AB
244	BOERNE	15	KBL991	AB-AB
245	COTULLA	15	KKW536	AB-AB
246	FLORESVILLE	15	KAU706	AB-AB
247	HONDO	15	KKW538	AB-AB
248	KERRVILLE	15	KKW535	AB-AB
249	NEW BRAUNFELS	15	KBL990	AB-AB

THD NO	LOCATION	DIST	FCC NO	CHANNEL
250	PEARSALL	15	KAU707	AB-AB
251	PLEASANTON	15	KKW537	AB-AB
252	SAN ANTONIO	15	KKW534	AB-AB
253	SEGUIN	15	KKW539	AB-AB
254	ATLANTA	19	KKW541	AB-AB
255	CARTHAGE	19	KAU288	AB-AB
256	GILMER	19	KAU291	AB-AB
257	LINDEN	19	KAU292	AB-AB
258	MARSHALL	19	KKW540	AB-AB
259	MOUNT PLEASANT	19	KKW542	AB-AB
260	NEW BOSTON	19	KAU293	AB-AB
261	BROWNSVILLE	21	KAP369	AB-AB
262	EDCOUCH	21	KFN643	AB-AB
263	FALFURRIAS	21	KKW548	AB-AB
264	FREER	21	KRW413	AB-AB
265	HEBBRONVILLE	21	KKW544	AB-AB
266	LAREDO	21	KKW546	AB-AB
267	PHARR	21	KKW543	AB-AB
268	RAYMONDVILLE	21	KKW545	AB-AB
269	RIO GRANDE CITY	21	KKW547	AB-AB
270	SAN BENITO	21	KKW728	AB-AB
271	SAN DIEGO	21	KBM643	AB-AB
272	ZAPATA	21	----	-A
273	TYLER	10	KKX853	AB-AB
274	TYLER	10	KKX854	AB-AB
275	SAN ANGELO	7	KFF204	AB-AB
276	DALLAS	18	KAR311	AB-AB
277	DALLAS	18	KAR312	AB-AB
278				
279	FARMERSVILLE	18	----	-A
280	ALBANY	8	KBE486	AB-AB
281	SAN ANTONIO	15	KTK731	AB-AB
282	SAN ANTONIO	15	KBQ380	AB-AB
283	SAN ANTONIO	15	KCV339	AB-AB
284	KERR CO	15	KRM762	AB-AB
285	HUMBLE	12	----	-A



PUBLIC SAFETY — SOUTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Florida, Georgia, N. Carolina, S. Carolina, W. Virginia, and Virginia:

William Mauldin, 2268 N.W. 30th Rd., Boca Raton, FL 33431

PUBLIC SAFETY - SOUTHEAST (General)

This is my third month now as the Editor of the Public Safety - Southeast. As you read this, I am hoping you have been impressed with the change in format that we have instituted for this section and also with the information that has come to you during the past three editions. As most of you are aware, there is a three month delay in printing from the time the Editor writes the material. As I write this section for this month, the first request for material will just about be on the printing press.

All of us like to read the material and related information on the public safety agencies in and around our area. I have a fairly extensive collection of frequency lists, codes, ID numbers and so on. Using my TRS-80 Model III computer and a program called "Maxi Manager", I have made files where the information can be catalogued, changed, updated and revised at will. If you have or are thinking of a home computer, you might consider something like this. As most of you know, I fly for one of the major airlines. When I travel, I take the ole Bearcat along and on the long layovers, I always enjoy listening to communications as well as working with my ham radio. It is nice to just go to the computer and punch in Atlanta or Los Angeles and just sit there as all of the codes and frequency lists just pop out for reference on the trip.

In addition to listening to the communications on the Bearcat, I usually take along a tape recorder. Sometimes I am in a city and monitoring when something very interesting takes place. The recorder is always there for the collection of tapes on the hobby. . With a background in both law enforcement and communications, I have made quite a few training tapes for police and fire departments as well as aviation. If anyone is interested in this for either listening or education, I would like to hear from you.

This month we have received information from Joe Lewis on the Clearwater Police communications. The information was very complete and is shown in the Florida section. Also, Jerry Callam sent an article on the Dade County (Miami area) EMS Communications System. My thanks and appreciation to both you guys. Let's hear from the rest of you out there! No matter where you live or how little information you have, you can help both the club and the RCMA News letter if you will contribute what you have for the knowledge of all of the members. Write to the Editor who covers that section of the RCMA when you have any information, changes, updates or questions!

The information submitted by Jerry Callam on Dade County EMS mentioned the following highlights: Randle Eastern Ambulance Service provides contract ambulance service to the Greater Miami area. (See the Fla section this month) Jackson Memorial Hospital is the main public service hospital in the Miami area, and paramedics welcome the information provided by the medical advisors who are in constant contact with EMS personnel. There are 10 channels set aside for EMS use in Dade. Two of these are for vehicle co-ordination and the other eight are for EMS use. With 27 hospitals receiving patients, 17 seperate satellite receiver locations, three transmitter sites in the initial system, there was a lot going on even in the beginning. Now there are 170 satellite receivers and 32 base transmitters using 10 channels! MEDCOM is the call sign ID, and this dispatcher monitors and controls the entire system. The operation of the system is designed for minimum effort from the paramedic or doctor. To speak to the hospital, the paramedics request a connection to the hospital of their choice on the vehicle control channel. The Medcom dispatcher, using a specially designed keyboard, presses in the number assigned to the EMS team and then the number assigned to the hospital. Channel assignment is then given to the EMS member, a button is pressed and connection between the EMS and the hospital is complete and ready for communication. How about some frequencies from you Miami members?!

PUBLIC SAFETY - SOUTHEAST (GEORGIA)

(Several years ago when I was flying for National Airlines, before Pan Am came along and caused the merger, I use to have frequent long layovers in Atlanta. At that time I made some notes on the Atlanta Police Dept and their radio code. This is a little old perhaps, but here is what I have from the notebook here... corrections please!)

ATLANTA POLICE DEPARTMENT - RADIO CODE

SIGNALS

1	Abandon auto	47	Injured person	4	Cancel
2	ADT alarm	48	Dead person	5	Domestic
3	Alarm ringing	49	Rape	6	False
4	Ambulance on way	50	Person shot	7	Food on stove
5	Breaking light	51	Person stabbed	8	Gone
6	Burglar in house	52	Stolen goods	9	Handled by:
7	Burglar in store	53	Suicide		A. Crime Prev.
8	Call Fire Dept.	54	Susp. persons		B. Detectives
9	Call Fire Chief	55	Unknown trouble		C. Dog Unit
10	Call Police Chief	56	Lost person		D. Fire Dept.
11	Garage	57	Loud party		E. Ambulance
12	Call clinic	58	Man beating woman		F. SPCA
13	Call filter plant	59	Meet an officer		G. Military Police
14	Call light plant	60	Molesting a woman		H. Owner
15	Call radio	61	Money transfer		J. Alarm Company
16	Cancel present call	62	OB call		K. Supv Officer
17	Call radio room	63	Officer needs help		L. Food man
18	Call radio shop	64	Pan-handler	10	Impounded
19	Assist in jail	65	PBA/PHA Alarm	11	Information
20	Call lights & water	66	Peeping tom	12	Investigation
21	Call wrecker	67	Person down	13	No such number
22	Call clinic #2	68	Screaming	14	Owner refused
23	Juv. disturbance	69	Armed person	15	Private Property
24	Mental	70	Prowler	16	Released to owner
25	Discharging firearms	71	Public indecency	17	Report
26	Fireworks	72	Reckless driving	18	72 Hr check
27	Dog barking	73	Rush	19	Work traffic
28	Drunk	74	Selling beer	20	Small damage
29	Fight/Disturbance	75	Shooting air rifle		no report req.
30	Drunk in vehicle	76	Sick call	21	Unable to locate
31	Electric wires down	77	Snatch thief	22	Unable to find
32	Escaped prisoner	78		23	Traffic ticket
33	Fire	79	Thieft from auto	24	Unfounded
34	Gambling	80	Stray animals	25	Settled
35	Go to driveway	81	Obstruction		
36	Holdup in progress	82	Wagon call	Airport Police	155.625
37	Illegal parking	83	Wanted person located	Zone 1 NW	460.300
38	Illegal whiskey	84	Working traffic	Zone 2 NE	460.025
39	Info. for officer	85	Wrecker call	Zone 3 SE	460.075
40	Investigate animals			Zone 4 SW	460.350
41	Accident	CODES:		Zone 5 D.town	460.150
42	Burglary	1	Advise warrant		460.200
43	Hit and run		A. Civil	Zone 6 citywd	460.300
44	Investigate holdup		B. On person	Atlanta Fire Dept.	
45	Larceny	2	Alarm re-set		153.890
46	Pedestrian hit	3	Alarm out		154.190

PUBLIC SAFETY - SOUTHEAST (NORTH CAROLINA)

STATE OF NORTH CAROLINA - DEPARTMENT OF TRANSPORTATION
47.140 47.260 47.380 47.320

NORTH CAROLINA RESCUE SQUAD ASSOCIATION HAS SELECTED 155.280 MHZ AS THE STATEWIDE RESCUE MUTUAL AID AND GENERAL USE FREQUENCY.

ALL NORTH CAROLINA LOCAL, COUNTY AND STATE LAW ENFORCEMENT DEPARTMENTS MONITOR 'INTERCITY' 155.190. THIS FREQUENCY IS USED FOR GENERAL INFORMATION EXCHANGE AND EMERGENCY COMMUNICATIONS BETWEEN DEPARTMENTS. THERE IS A 'SECODE' DIAL SYSTEM USED ON THIS FREQUENCY. MOST, IF NOT ALL NUMBERS ARE FOUR DIGIT NUMBERS. A DEPARTMENT CAN BRING UP ANOTHER DEPARTMENT AND OPEN THE SQUELCH FOR RECEIVING OF A MESSAGE BY DAILING A FOUR DIGIT NUMBER. AN EXAMPLE OF THIS IS... 0224 FOR STATE HIGHWAY PATROL, SALISBURY.

THE KNOWLEDGE OF THE CODE NUMBERS IS MEANLESS TO A MONITOR LISTENER BECAUSE UNLESS YOU HAVE TOTAL TONE RECOGNITITION, ALL OF THE CODE NUMBERS SOUND JUST ABOUT ALIKE.

IF YOU MONITOR MUCH PUBLIC SAFETY COMMUNICATION CONVERSATION IN N.C., YOU WILL OFTEN HEAR THE TERM 'PIN'... THIS IS THE 'POLICE INFORMATION NETWORK', A COMPUTER TYPE TELETYPE BETWEEN MOST DEPARTMENTS. EMERGENCY COMMUNICATION BETWEEN STATIONS IS OFTEN CARRIED ON THE 155.190 MHZ NET IF THE STATIONS ARE WITHIN RANGE OF EACH OTHER DUE TO A SLIGHT DELAY IN THE 'PIN'. COMPUTER CONTROL OF THE 'PIN' IS IN RALEIGH. ALL MESSAGES MUST GO BY THE RALEIGH CENTER BEFORE BEING SENT OUT TO THE RECEIVING DEPARTMENT. EVEN THOUGH THE 'PIN' IS IN WIDE USE IN NORTH CAROLINA, MONITORING 155.190 MHZ IS STILL VERY INTERESTING.., ESPECIALLY DURING CHASE SITUATIONS OR EMERGENCY CASES.

GUILFORD COUNTY (Greensboro/High Point Area)

GUILFORD COUNTY SHERIFF'S DEPARTMENT:

Mobile Radio Assignment:

F1	Main Dispatch	460.475 MHz
F2	Forsyth Co. Freq.	460.025
F3	Tri-Ad Mutual aid	460.375
F4	Simplex	460.475

HIGH POINT POLICE DEPT.

	460.075 MHz
	460.125
	460.350
	460.375 Mut. Aid

GUILFORD COUNTY AMBULANCE SERVICE

F1	155.220	Main Dispatch
F2	155.280	
F3	155.340	

GUILFORD COUNTY FIRE DEPTS.

46.500 MHz	Dispatch
46.240	
46.380	

(Comment: The Greensboro, North Carolina PD was printed in this section, two months back. Check that issue if you are looking for Greensboro City PD.)

You will often times hear the term "PUBLIC SERVICE" mentioned when monitoring police and highway patrol communications in North Carolina. This is the term used to mean --- telephone. When you hear a dispatched say that he is on "PUBLIC SERVICE", it just means that he is on the telephone.

I would like very much to do a breakdown on all of the major cities and the surrounding towns. PLEASE send me what you have in your notebook for these locations! Even if it is incomplete, when added to the other material that I have on file, it might be a full rundown on a department or enforcement agency. SEND IT, PLEASE!

GUILFORD COUNTY EMERGENCY TRANSPORTATION SERVICE
Communications 10 Codes & Signals

10-1 Receiving you poorly
10-2 Receiving well
10-3 Stop transmitting
10-4 Acknowledgement
10-5 Relay
10-6 Busy
10-7 Out of service
10-8 In service
10-9 Repeat
10-10 Fight in progress
10-11 Remain in service
10-12 Standby (stop)
10-13 Weather/Road report
10-14 Change traffic to 10-39
10-15 Patient
10-16 Rendezvous with ___ at ___
10-17 Being delayed with patient
10-18 Complete assignment quickly
10-19 Return to _____
10-20 Location
10-21 Call _____ by phone
10-22 Disregard
Sig 1 No one injured
Sig 2 Patient refused to go
Sig 3 Transported by POV
Sig 4 Not needed auth PD
Sig 5 Fake call
Sig 9 Other

10-23 Arrived at scene
10-24 Assignment completed
10-25 Meet _____ at _____
10-26 Anything for us?
10-27 Nothing for you
10-30 Illegal use of radio
10-32 Person with gun
10-33 EMERGENCY
10-34 Civil Disturbance
10-35 Advise if PD is enroute
10-36 Correct time
10-39 Emergency run, lights/siren
10-40 Non-emergency run
10-50 Accident (F PI PD)
10-51 Entering light band
10-52 Clearing light band
10-55 We are involved in accident
10-60 Which hospital?
10-61 Cone Hospital
10-62 Wesley Long Hospital
10-63 Greensboro Hospital
10-64 L. Richardson Hospital
10-65 High Point Hospital

10-70 Fire
10-71 Fee paid
10-74 Negative (no)
10-76 Enroute
10-77 ETA
10-78 Need assistance
10-79 Notify Med Examiner
10-91 Unnecessary use of radio
10-96 Mental subject

SIGNALS:
1 At office or base
2 Meal
3 Flat tire
4 Gasing vehicle
5 Transporting Equip.
6 Engine trouble
7 Personal reasons
8 Meet another unit
9 Public service (phone)
10 At home
11 Send another crew
12 Send the police
13 Send FD
14 Send rescue
15 Send supv.
16 Send Director
17 Send a wrecker

CONDITIONS:
1 Heart attack
2 Stroke
3 Convalescent
4 Oxygen
5 OB in labor
6 OB hemorrhage
7 Unconscious
8 Head and face cuts
9 Head injury
10 Neck injury
11 Back injury
12 Hip injury
13 Multiple injuries
14 Internal injuries
15 Shoulder injuries
16 Broken arm
17 Broken leg
18 Bruises and abrasions
19 Body cuts
20 Extremity cuts
21 Stab wounds
22 Shot
23 Chemical burns
24 Thermal burns
25 Shock
26 Diabetic
27 Epileptic
28 Convulsions
29 Kidney
30 Pheumonia
31 Choking
32 Asthma
33 Sick
34 Nervous cond.
35 Appendicitis
36 Drunk
37 Oral poison
38 Overdose
39 Attempted suicide
40 Insect/snake bite
41 Check-up
43 Hemorrhaging
44 Possible DOA

PUBLIC SAFETY - SOUTHEAST (VIRGINIA)

Nothing has been received this month from members in the Virginia area. I am again going to my notes on the State of Virgina... Please guys, send me something from that file and notebook!

Roanoke Police Department:
F1 155.310 F2 155.490 Fire 155.820 (Rescue/Amb) Fire: 154.310
Roanoke County
Sheriff: 39.360 39.500 39.540 Fire: 45.880 45.480
Roanoke Memorial Hospital
154.340 "MedCom" 463.1750

Salem Police Department
453.2250 453.3250 453.4250
Salem Fire/Rescue
453.4750

Salem VFD (Culpepper Area)
33.820

Culpepper Police Department
39.540 39.600

The frequency of 154.340 MHz is used widely throughout Virginia by most of the hospitals and rescue squads.

PUBLIC SAFETY - SOUTHEAST (FLORIDA)

As an added supplement to the section in the NOVEMBER 1982 RCMA NEWSLETTER on the FLORIDA HIGHWAY PATROL, the following information has been received and should be added to your data collection on this agency:

FLORIDA HIGHWAY PATROL Radio Station Frequency Assignments
F1 - 154.665 F2 - 154.680 F3 - 154.695 F4 - 154.920 (simplex)

Apalachicola, KSN238, F3
Arcadia, KIK502, F2
Bradenton, KIB474, F3
Brooksville, KIA680, F2
Crestview, KIA285, F1
Cross City, KIB472, F3
Daytona Beach, KGT619, F2
Deland, KIB483, F2
Everglades, KFN568, F2
Ft. Lauderdale, KIM776, F2
Ft. Myers, KIB481, F1
Ft. Pierce, KID295, F3
Gainesville, KAV733, F3
Inglis, KCR971, F3
Jacksonville, KIB485, F1
Key West, KRF346, F3
Kissimmee, KWE480, F3
Lake City, KIB468, F3
Lakeland, KIB480, F1
Lake Placid, KGT617, F2
Leesburg, KEY959, F2
Madison, KGT618, F3
Marathon, KID533, F3
Marianna, KIB490, F1
Miami, KIB477, F1 F3
Melbourne, KIB484, F2
Ocala, KIB491, F1
Orlando, KIC854, F1 F3
Palatka, KIB471, F3
Pahokee, KIB479, F3
Panama City, KIC734, F1
Pensacola, KIB473, F3
Perry, KIW553, F3
Pinellas Park, KIM939, F1
Quincy, KBQ738, F3
Starke, KIP346, F3
St. Augustine, KLW285, F3
Tallahassee, KIB478, F1
Tampa, KIB487, F2
Titusville, KAQ556, F2
Vinice, KUU359, F2
W. Palm Beach, KIB482, F3

Temp. Base, KID490, All

Remember, the FHP stations also operate on 45.060 MHz also. This frequency is a base to base FHP freq., a mobile can call in on 44.900 Mhz if they have low band and station will acknowledge on 45.060 MHz. The above information does not have anything to do with the Florida Turnpike FHP system. See the November 1982 RCMA NEWSLETTER for the FHP Turnpike system as well as additional FHP data.

PUBLIC SAFETY - SOUTHEAST (WEST VIRGINIA & SOUTH CAROLINA)

Nothing was received this month from you folks in these states. I sure would like to hear from you. PLEASE SEND ME ANYTHING AND EVERYTHING you have so we can get something in here from your area!!

PUBLIC SAFETY - SOUTHEAST (FLORIDA)

(From Joe M. Lewis...)

CLEARWATER POLICE DEPARTMENT, FL
CHANNEL 1 460.275 DISPATCH 155.370 INTERCITY
CHANNEL 2 460.425 INFORMATION
CHANNEL 3 460.475 (EAST END WHEN STAFF PERMITS)
CHANNEL 4 460.100 DETECTIVE

POLICE IDENTIFICATION UNIT NUMBERS:
2 AND 3 DIGITS ARE POLICE PATROL VEHICLES... WHEN THE LAST DIGIT IS AN ODD NUMBER, THE CAR ASSIGNMENT IS WEST OF HIGHLAND AVENUE. WHEN THE LAST DIGIT IS AN EVEN NUMBER, THE VEHICLE ASSIGNMENT IS EAST OF HIGHLAND AVENUE. 'S' UNITS ARE RESERVE OFFICERS. AN EXAMPLE OF THIS WOULD BE 'S-19'.
400'S ARE SERGEANTS --- 500'S ARE LTS --- 600'S ARE DETECTIVE

CLEARWATER POLICE RADIO CODE:

CODE	MEANING (AT PRESENT, THEY ONLY USE 8 CODE NUMBERS)
1	ROUTINE CALL
2	URGENT - NO SIREN OR LIGHTS
3	EMERGENCY
4	NO ASSISTANCE NEEDED
5	REGISTRATION CHECK
6	BOMB THREAT
7	OUT FOR MEAL
8	MENTAL CASE

CITY OF CLEARWATER, FL FREQUENCY 453.425 MHZ

102	SAFETY
101 TO 108	ASSIGNED TO MOTOR POOL
600	TRAFFIC ENGINEERING
700	PUBLIC SERVICE (WATER ETC)
800	ENGINEERING
820 TO 841	BUILDING INSPECTORS
900	NURSERY AND PARKS
970 TO 975	RECREATION

CLEARWATER FIRE DEPARTMENT 154.280, 154.340, 154.400
460.600

GENERAL FIRE DEPARTMENT FREQUENCY DATA: (FROM 'FIREHOUSE')

JACKSONVILLE, FL	465.575	DISPATCH	*Comments: These must be just a few of the massive number of frequencies used by these FD's. FIREHOUSE is a publication that is generally distributed to VFD and FD personnel. Any comments by RCMA members would be much appreciated!*
	460.625	FIREGROUND	
	468.000	EMS	
MIAMI, FL	453.100	DISPATCH	
	453.150	FIREGROUND	
	453.425	EMS	

ALL AMBULANCE CALLS IN THE GREATER MIAMI/DADE COUNTY AREA ARE ON 155.220
THIS IS THE RANDLE - EASTERN AMBULANCE SERVICE, CONTRACT TO COUNTY.

PUBLIC SAFETY WEST

PUBLIC SAFETY - WEST

Send Public Safety and Special Emergency frequencies, radio system details and questions for Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming to:

George Hoggatt, 17473 E. 16th Drive, Aurora, CO 80011.

Welcome to a new year. It will be a short column this month. Very little has come in. This is your column and it has to have your support.

Jeff Shinn (ID-010) Has identified the Salt Lake City problem on 460.100. The Idaho State Police District for S.E. Idaho operates on 460.100 with the repeater input on 465.100. The various county/city law enforcement agencies have the capability to access these repeaters.

SWEETWATER COUNTY WYOMING (Michael W. Scheel [IA-011])

Unit Identifications	
PAT	Wyoming Highway Patrol
SAM	Sweetwater County Sheriff's Patrol
LA	Little America Police
GRANGER	Granger Police
GS	Wyoming Game and Fish
F	Federal Agencies?
SR	Sweetwater County Search and Rescue (155.22 BM)

County 4 MS 16 Ambulance 4 is for Sweetwater County, 16 is the unit number

UTAH Mike again

Duchesnse County units are "M"
Unitah county units are "N"

DENVER COLORADO EMERGENCY SIRENS

Recently Denver has had problems with its new radio activated air raid sirens. Two problems have caused the malfunctions. The first is that the sirens are set off by a two tone paging system. The transmitter has been picking up and repeating interference from one or more paging services in the area. The second is that moisture has collected on the receiving circuit boards at the siren locations. To eliminate the problems, they are changing all of the circuit boards to a new waterproof model and they will all require three tones. The frequency for this system is 155.955 repeater output, 153.875 input. The Fire Department uses this as channel 3.

SEATTLE WASHINGTON Police and Fire Frequency Listing

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S E A T T L E P O L I C E D E P A R T M E N T

SEATTLE POLICE DEPT. FREQUENCIES

F-1	460.375	(R)	NOT IN USE
F-2	460.425	(R)	WANTS AND WARRANTS
F-3	460.475	(R)	DISPATCH AND PATROL SOUTH PRECINCT
F-4	460.075	(R)	DISPATCH AND PATROL NORTH PRECINCT
F-5	460.125	(R)	DISPATCH AND PATROL EAST PRECINCT
F-6	460.175	(R)	DISPATCH AND PATROL WEST PRECINCT
F-7	460.250	(R)	CAR TO CAR

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Police and Fire Frequency Listing

UNIT ASSIGNMENT NUMBERS

100 - CHIEF OF POLICE
101 - LEGAL ADVISOR
102 - ADMINISTRATIVE SECTION
104 - PUBLIC INFORMATION OFFICER
130 - INTERNAL INVESTIGATION SECTION
150 - INSPECTIONAL SERVICES DIVISION
151 - INSPECTION AND POLICY SECTION
154 - PLANNING SECTION

FIELD SUPPORT BUREAU

200 - ASSISTANT CHIEF
210 - CRIMINAL INFORMATION SECTION
211 - ADMINISTRATIVE UNIT
212 - OPERATIONS UNIT
213 - CRIME ANALYSIS UNIT
214 - INTEGRATED CRIMINAL APPREHENSION GRANT
220 - SPECIAL ACTIVITIES SECTION
223 - RESERVE UNIT
230 - COMMUNICATIONS DIVISION
231 - ADMINISTRATIVE/TRAINING SECTION
232 - OPERATIONS SECTION
240 - CRIME PREVENTION DIVISION
241 - SECURITY SECTION
242 - COMMUNITY CRIME PREVENTION SECTION
243 - COMMUNITY SERVICES SECTION
244 - SCHOOL SAFETY UNIT
245 - CROSSING GUARDS
246 - COMMUNITY SERVICE OFFICES UNIT
247 - SEATTLE NEIGHBORHOOD CR. CONT. GR. SECTION
248 - VICTIM/WITNESS ADV. REFERRAL SECTION

INVESTIGATION BUREAU

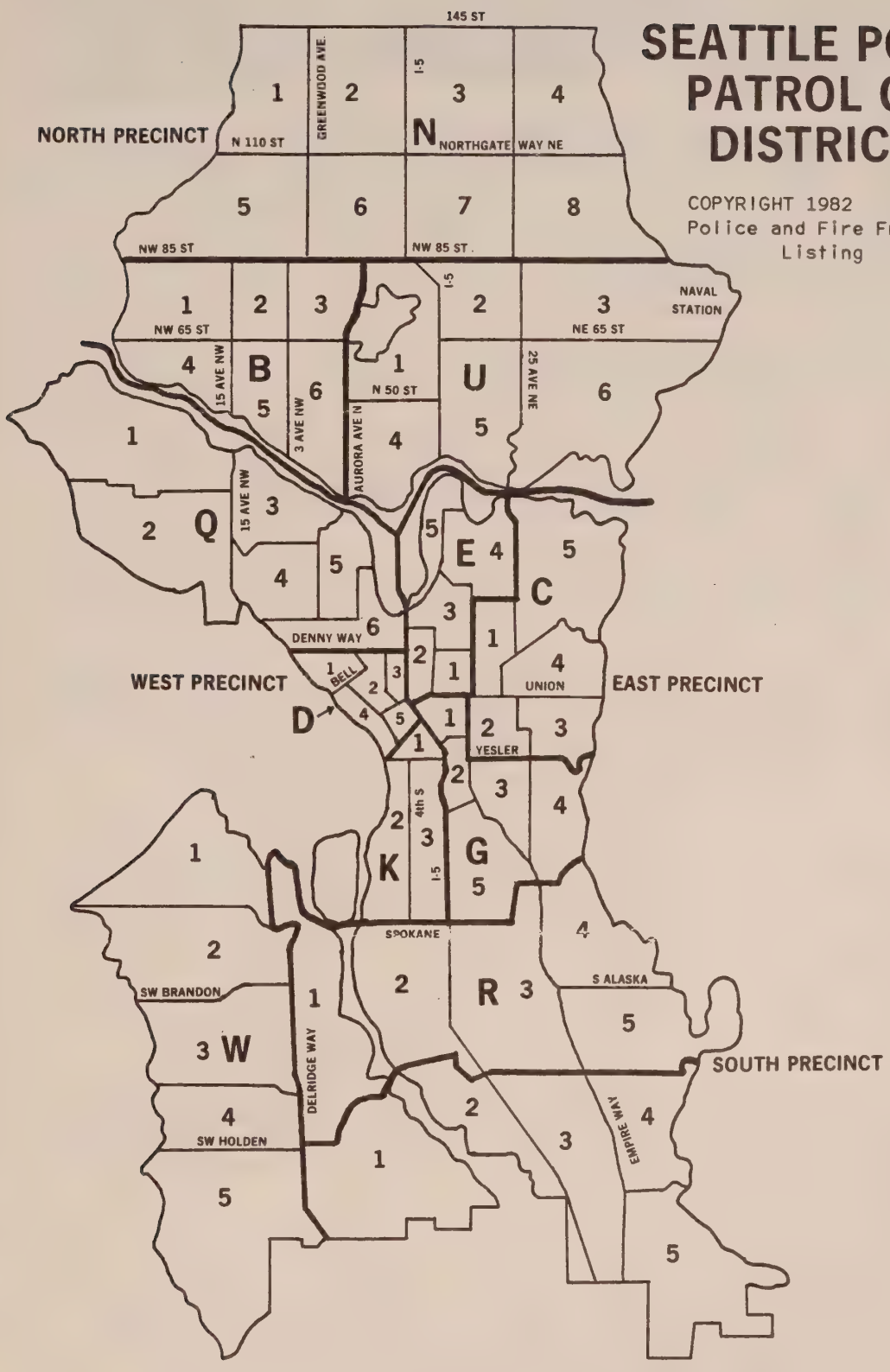
300 - ASSISTANT CHIEF
310 - CRIMINAL INVESTIGATION DIVISION
320 - CRIMES AGAINST PERSONS SECTION
321 - HOMICIDE AND ASSAULT UNIT
322 - SEX CRIMES SQUAD
323 - MISSING PERSONS DETAIL
324 - ROBBERY UNIT
330 - CRIMES AGAINST PROPERTY SECTION
331 - BURGLARY/THEFT UNIT
333 - VEHICLE CRIMES UNIT
334 - ACCIDENT INVESTIGATION
335 - AUTO THEFT SQUAD
336 - COMMERCIAL/ANTI-FENCING UNIT
337 - ANTI-FENCING SQUAD
338 - COMMERCIAL SQUAD
339 - PROPERTY RECOVERY SQUAD
340 - SPECIAL ASSIGNMENTS UNIT
341 - CHECK/FORGERY SQUAD
342 - FELONY WARRANTS SQUAD
343 - FRAUD/EXPLOSIVES SQUAD
345 - POLYGRAPH DETAIL
350 - JUVENILE SECTION
351 - ADMINISTRATIVE UNIT
352 - OPERATIONS UNIT
360 - VICE AND NARCOTICS DIVISION
361 - VICE SECTION
362 - GAMBLING UNIT
363 - GENERAL INVESTIGATION UNIT (NIGHTS)
366 - NARCOTICS SECTION

OPERATIONS BUREAU

400 - ASSISTANT CHIEF
401 - OPERATIONS SECTION
402 - ADMINISTRATIVE UNIT
403 - TACTICAL COORDINATION UNIT
405 - PATROL DIVISION
410 - WEST PRECINCT
420 - NORTH PRECINCT
430 - SOUTH PRECINCT
440 - EAST PRECINCT
450 - SPECIAL OPERATIONS DIVISION
460 - TRAFFIC SECTION
465 - SPECIAL ENFORCEMENT UNIT
466 - DWI SQUAD
470 - MOTORCYCLE UNIT
475 - PARKING ENFORCEMENT UNIT
480 - METROPOLITAN SECTION
482 - SPECIAL PATROL UNIT
483 - HARBOR PATROL UNIT
484 - MOUNTED PATROL UNIT
485 - CANINE UNIT

ADMINISTRATIVE SERVICES BUREAU

500 - ASSISTANT CHIEF
501 - PSYCHOLOGIST
502 - CHAPLAIN CORPS
503 - POLICE PHYSICIAN
520 - PERSONNEL DIVISION
521 - PERSONNEL RELATIONS SECTION
522 - PERSONNEL RECORDS UNIT
523 - BACKGROUND/SPEC. COMMISSION UNIT
525 - EMPL. PLANNING AND AFFIRM. ACCTION SECTION
526 - RECRUITMENT UNIT
527 - ILL. AND INJ. AND PERS. ACCOUNTABILITY
528 - TIMEKEEPING UNIT
529 - SAFETY OFFICE/ACCIDENT REVIEW
530 - TRAINING DIVISION
535 - BASIC TRAINING SECTION
536 - BASIC TRAINING UNIT
537 - RECRUIT DETAIL
540 - SPECIAL TRAINING SECTION
541 - RANGE UNIT
542 - DRIVER SAFETY UNIT
543 - T.V. UNIT
544 - ADVANCED TRAINING UNIT
545 - ORIENTATION DETAIL
546 - FIELD TRAINING DETAIL
550 - RECORDS AND EVIDENCE DIVISION
551 - EVIDENCE SECTION
552 - IDENTIFICATION SECTION
553 - ADMINISTRATIVE UNIT
554 - I.D. UNIT
555 - PHOTO LAB SECTION
560 - RECORDS SECTION
561 - COURT UNIT
564 - DATA DISTRIBUTION UNIT
570 - RECORDS FILES UNIT
580 - FISCAL, PROPERTY AND FLEET MGT. DIVISION
581 - FISCAL SECTION
585 - PROPERTY SECTION
586 - FLEET CONTROLL SECTION
590 - D.P. SECTION


SEATTLE POLICE PATROL CAR DISTRICTS
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Police and Fire Frequency Listing
NORTH PRECINCT
WEST PRECINCT
EAST PRECINCT
SOUTH PRECINCT
145 ST
N 110 ST
NORTHGATE WAY NE
NW 85 ST
NW 65 ST
NE 65 ST
NAVAL STATION
N 50 ST
DENNY WAY
BELL
UNION
YESLER
SPOKANE
SW BRANDON
SW HOLDEN
S ALASKA
DELRIDGE WAY
EMPIRE WAY
GREENWOOD AVE.
I-5
15 AVE NW
3 AVE NW
AURORA AVE N
25 AVE NE
4th S
N
B
U
Q
E
C
D
K
G
R
W

Public Safety-California

Public Safety-California P.O. Box 3962 Santa Fe Springs, California 90670-1962

PUBLIC SAFETY - CALIFORNIA

Send Public Safety and Special Emergency frequencies, radio system details and questions to:

Public Safety, California, P.O. Box 3962, Santa Fe Springs, CA 90670-1962

Welcome to the January 1983 issue of Public Safety-California

We've really got to squeeze in the info due to space limitations, so please bear with us. CLIFF (CA-AL-029) sent in quite a bit of info on CALTRANS District #4. If you're interested in it, I'll send it to you.

From TOM (CA-LA-475): Helicopter to helicopter contacts are made on 122.75, 123.05, 123.025 and 123.40. L.A. Airport Police use 460.525 as ch. 1. Anyone know what ch. 2 is? Freq. 471.1125 of the South Bay Reg. Comm. is busy with interesting stakeout and surveillance action.

From BILL (CA-SC-029): He has heard lots of activity on 49.86 such as cordless telephones and walkie talkies and is interested in hearing from anyone using this band and knowing what range they have achieved.

Southern Calif. Gas Company (lost source)

Division	Headquarters	Frequency
Eastern	Riverside	153.425
Inland	San Bernardino	153.545
Metropolitan	Los Angeles	153.44
North Coastal	Santa Barbara	153.425 Santa Paula,
Northern	Glendale	153.56 153.545
Northwest	Hollywood	153.47
Orange County	Anaheim	153.455
San Fernando Valley	Woodland Hills	153.515
San Gabriel Valley	Pasadena	153.53
San Joaquin Valley	Visalia	*
Southeast	Downey	153.605
Southern	Compton	153.485
Western	Inglewood	507.3625
Transmission Divisions	153.41 & 451.075	

*San Joaquin Valley Division unknown; may be one of the above freqs.
Note: Some Divisions may be operating on more than one frequency. Only confirmed frequencies are listed.

From Ron (CA-VE-013)

Ventura County S.O. is adding a third frequency, scheduled to be operational by September 8, 1982. The frequency is 156.150 MHZ (old LAPD TAC-3). It will be called "Channel Five" because that is where it is located on the control head in the patrol units. Base station call sign is WZX-690, South Mountain site. Mobile call sign is un-changed. The new channel will be used for East Valley dispatching, while West County units will remain on 159.210 MHZ. Car to car for all units is still 158.730 MHZ, Channel two. All dispatching is done out of station one, Ventura. East Valley sub-station (1000 Oaks) receives their own incoming complaint calls, then uses a telephone hotline to station one to dispatch the call. Here is the current mobile channel plan:

F1 - 159.210 Sheriff West County Dispatch
F2 - 158.730 Sheriff Car-Car
F3 - 158,835 Santa Paula P.D. Fillmore P.D.
F4 - 158,805 Simi Valley P.D.
F5 - 156.150 Sheriff East Valley Dispatch
F6 - 155.310 Ventura P.D.
F7 - 155.655 Oxnard P.D. Port Hueneme P.D.
F8 - 154.920 Clemars
F9 - 156.015 Countywide Car-Car All Agencies
F10- 155.145 Community College P.D. - Airports - Lifeguard
F11- 155.160 Search and Rescue
F12- Blank Future Use

Also note that while there are 12 channels, only the first eight are capable of being scanned in the patrol unit (8-channel motorola scanning head). Any of the 12 channels can be dialed in for communication with any agency. Also note, the other agencies channel plans in their mobiles are not the same.

The MODAT units for comuter aided dispatch (CAD) have also been installed and should also be operational shortly. Along with that, the old 3-digit call signs are being replaced with 4-digit call signs. The additional number will be a shift designator.

1 = Dawn Shift (2300-0700)
2 = Day Shift (0700-1500)
3 = Evening shift (1500-2300)

Example of 4-digit call sign:

3 - D - 2 - 1 County Unit

Area Station Beat Shift

9 - C - 2 - 2 City Unit (Contract Cities)

Area Beat Number Shift
of cars in the beat

Also, I am including a short list of unit numbering for all units:

First Digit:

1 - City of Ojai
2 - Support Services Division
3 - West County Patrol (County Units)
4 - East Valley Patrol (County Units)
5 - Special Services Division
6 - Custody Division
7 - Court Services Division
8 - City of Thousand Oaks

Second Digit: For a city car this will indicate the beat, for a county car, this area.
(Patrol units only) First digit is 3 or 4, then second digit:

A - Ojai Valley
B - Santa Clara Valley
C - Oxnard Plains, South Coast, Somis, Nyeland Acres
D - Saticox, El Rio, Oxanrd Beaches, Rincon
E - Newbury Park (unincorporation), Agoura, Bell Cyn.
F - Moorpark, Santa Susana, Box Canyon, Santa Rosa Valley

City Units: 1A = Ojai East
1B = Ojai West
8A = Camarillo West
8B = Camarillo Central
8C = Camarillo East

9A = T.O. North
9B = T.O. East Central
9C = Newbury Park
9D = Westlake
9G = T.O. West Central
9H = Newbury Park

SAN LUIS OBISPO COUNTY LAW ENFORCEMENT SERVICES

Unit designation code AA B C D—Consecutive number of car in beat
Beat
Unit code-A=1 man, B=2 man, C=Capt,
Example: 21A1 Agency D=Detc, G=Corner, L=Lieut,
SLO Stn,1 man in beat 1 S=Serg, X=Extra, V=Intell,
Z=Special Assign.

Agency
21=SLOSO,Coast Station, 22=SLOSO,North Stn, 23=SLOSO,South Stn,
24=SLOSO,Hdq, 25=SLOSO,Civil, 26=SLOSO,Fld. Comm. Post, 27=SLOSO,Jail
41=Paso PD, 42=SLOC PD, 43=Morro Bay PD, 44=Pismo Beach PD
45=Grover City PD, 46=Arroyo Grande PD, 47=Cal Poly PD, 48=Atascadero PD
61=DA,SLOCO CHP=9-Paso, 28-San Luis

Freq= Blue-460.150 SO main channel
Yellow-460.475 Admin channel (The following channels are included
Comm Post in all city units)
Red-460.050 county-wide
for BOL, Chases,
Mutual Aid
White-460.025 Car to Car
Green-Dedicated radio channel assigned to each city department
Paso-460.125, Morro Bay-460.100, SLOC-460.375, Grover City,
Arroyo Grande, Pismo Beach-460.175, Cal Poly-460.250,
Atascadero-460.425, CHP-42.56 & 42.72(White)

SLOSO Beats-
21-Ontario Grade to Monterey County Line, up the Coast
Beat 1 - Ontario Grade to Cayucos
Beat 2 - Cayucos to Monterey County Line
22-Cuesta Grade to Monterey County Line, including California Valley
Beat 3 - Nacimiento Lake
Beat 4 - Templeton north to Monterey County Line
Beat 5 - Cuesta Grade to Templeton
23-Ontaria Grade to Santa Barbara County Line
Beat 6 - Ontario Grade to Oceano
Beat 7 - Oceano to Santa Barbara County Line

John C. Gibson (CASLO04) also N6HMZ

A few things on L.A. City communications:

1) Addition to LAPD tows: Hollywood Tow (OPG) 35.88

2) In response to Tom's (CA-LA-475) question in the NOV '82 newsletter, "34MARY" units are motor units from West Bureau traffic. Here are some interesting unit ID's that most people are not aware of...(not in Police Call)

a) Miscellaneous Services

3H-Automated Information
7H-Employee Opportunity and Development
10H-ECCCS staff (Emergency Command Control Communications System, pronounced "X")

5K90C-criminal conspiracy
F-fugitive investigation
G-gang detail

8K 1- 99 - Juvenile Div., other than narcotics
100-199 - " " , special narcotics detail
200-299 - " narcotics, Central Bureau
300-399 - " " , South "
400-499 - " " , West "
500-599 - " " , Valley "

R A-Metropolitan Div., "A" team
B- " " , "B" "
C- " " , "C" "
D- " " , S.W.A.T.
H- " " , Horse detail
100-Rapid Transit District (They actually have a radio in RTD headquarters that can transmit on Tact 1 and Tact 2. I have seen it!)
700-Secret Service (This is listed in the LAPD manual, but I have never heard it...)

1CRASH-Community Resources Against Street Hoodlums, Central Bureau
3CRASH-South Bureau
8CRASH-West Bureau
9CRASH-Valley Bureau

3Y - Asian Task Force
8YA - officer in charge; field enforcement
B - " " " ; major violators
200-299 - Narcotics Div., Central Bureau
300-399 - " " , South "
400-499 - " " , West "
500-599 - " " , Valley "

b) Tactical units

MOBILE 1-command post truck
2-logistics truck
3-communications
4-personnel and transportation
5-field offices and generator
7-tactical operations truck
LIGHT 1-high intensity lighting vehicle
2- " " " "
SOUND 1- " " public address vehicle
2- " " " " "

c) Traffic Bureaus

32(letter)-Central Traffic Div.
33 " -South " "
34 " -West " "
35 " -Valley " "

3) Dan (CA-LA-359) has done a fine job with the ROVER assignments, so I will leave that alone. The following frequencies are for the MDT terminals in the black and whites (taken from one of the ECCCS summary volumes); however, I have seen a couple of these frequencies up for grabs in the APCO bulletin, so who knows?...

155.07/159.15 DATA-MDT Central Bureau
155.52/159.18 " South "
155.01/158.865 " West "
155.58/159.03 " Valley "
155.19/158.91 " City-Wide

Regarding Hugh's (CA-LA-472) comment on LAPD paranoia; I disagree. I think a better word is ignorance. I was associated with LAPD for over six years, and have worked many details with many officers. Better than half of the officers are completely unaware that routine communications can be monitored; let alone things like decoy prostitutes with wireless mic's, Internal Affairs bugs in police stations, etc..

4) 153.80 -- This can be an interesting local government frequency (everybody is on PL, also). I have identified at least four different entities on it:

a)Recreation and Parks
  i) Griffith Park Rangers, etc.
  ii) maintena
b)Hansen Dam lifeguards
c)sometimes used by the L.A. Children's Center (downtown)
d)Hollywood (LAPD) Area Explorer Scouts

Wayne (CA-LA-119)

From ERIC (CA-LA-045):

Once again here is a list of agencies to listen to at the Rose Parade and Rose Bowl:

FREQUENCY	MODE	CHANNEL USAGE/PURPOSE
506.4625 Mhz	R	Pasadena PD F1 Normal police operations
506.6875	R	Pasadena PD F2 Rose Parade/Bowl Command
39.48	BM	LA Sheriff "Charlie" Prisoner vans/units
39.72	BM	LA Sheriff "Edward" Prisoner vans/units
39.32	BM	LA Sheriff "William" Prisoner vans/units
42.34	BM	Calif. Hwy. Patrol "Blue" Traffic Control
154.515	BM	Rose Parade Command Channel
154.92	BM	Clemars Mutual Aid-Command
155.955	BM	Pasadena Local Government (Police Explor. Post)
158.82	BM	Pasadena Local Government
458.425	BM	Pasadena Local Government
147.27	R	Amatuer Radio-parade command channel
145.30	R	Amatuer Radio-parade command channel
146.52	M	Amatuer Radio-parade command channel
46.10	B	Pasadena Fire Dept. Dispatch 'Verdugo'
153.89	BM	Pasadena Fire Dept. Primary (30 series)
150.92	BM	Automobile Club of Southern Calif. (AAA-ACSC)
150.95	BM	ACSC-AAA
450.75	R	KMPC Radio Station
450.85	R	KFWB Radio Station
161.76	BM	KNBC Television
450.5875	R	KTTV Television
173.375	BM	Pasadena Star News
156.03	BM	Pasadena Police Department
39.40	M	LA Sheriff P-1
39.26	M	LA Sheriff P-2
463.175	B	Pasadena-Huntington Memorial Hospital
151.07	R	LA County Road Department
450.80	R	KNX NewsRadio
151.625	BM	Unknown users-possibly tow trucks or security
151.655	BM	" " " " " " " "
151.775	BM	" " " " " " " "
151.805	BM	Ranger Security Company, Pasadena
46.00	BM	Medevac Ambulance Co., Pasadena
47.42	BM	American Red Cross
462.675	BM	Pasadena City College Security (GMRS)
132.00	BM?	Goodyear Blimp (217.475 also)
122.75	M	Police Helicopters
123.025	M	Police Helicopters
156.33	BM	San Marino Police Department
158.73	R	Sierra Madre and Monrovia Police Depts.
470.9875	R	South Pasadena Police Dept.
507.0625	R	Arcadia Police Dept.
159.09	R	Glendale Police Dept.
42.50	B	Calif. Highway Patrol Glendale (98 units)
154.905	HT	CALIF HIGHWAY PATROL EXTENDER

Thanks goes out to the numerous persons who contributed to this list. Also tune to the 470 MHZ. LASO Freqs. listed in July 1982 column page 62.

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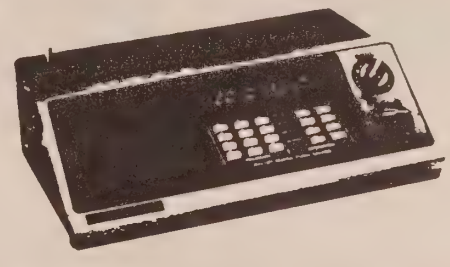

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Units will be available
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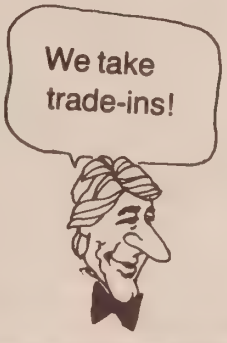

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Railroads

Gary L. Sturm and
Bill Farmer, Editors

Send information about railroad frequencies and their uses, railroad radio system details, and related questions to:
Gary L. Sturm, 48781 Denton Rd., Apt. 37, Belleville, MI 48111.

Season's Greetings from your railroad editors. This month we have some recently confirmed frequency information.

Alaska Railroad has added a fourth channel for use by gravel trains while loading and unloading. Large amounts of gravel are being hauled from the Matanuska/Wasilla/Palmer area about 50 miles to the Anchorage area. The nearly constant chatter caused by the frequent moving of cars at the loading and dumping sites brought about the shift from channel 3 to channel 4 for the gravel trains.

Also it is interesting to note that when using channel 2, transmissions to the dispatcher on 165.3375 are repeated on 164.625.

Alaska Railroad	164.625	Ch. 1 Road
	165.3375	Ch. 2 Trains to Dispatcher
	164.625	Ch. 2 Disp to Trains
	165.2625	Ch. 3 Yard
	164.9875	Ch. 4 Gravel Train loading & unloading

Alaska RR Base Stations	Assigned Channel
Seward	1
Whittier	3
Anchorage Yard	3
Talkeetna	1
Denali Park	1
Healy	1
Nenana	1
Fairbanks	3

Alaska RR Wayside Stations	Assigned Channel
Seward	2
Moose Pass	2
Portage	2
Whittier	2
MP 92	2
Anchorage Disp. Office	2 + 4
Wasilla	2
Talkeetna	2
Gold Creek	2
Hurricane	2
Broad Pass	2
Carlo	2
Garner	2
North Nenana	2
Fairbanks	2

Amador Central is a 12-mile shortline running from a lumber mill at Martell, Calif. to a connection with the Southern Pacific at Ione, Calif. American Forest Products Co. owns the mill and the railroad, and the radio channel is used by both.

Amador Central	49.22	Railroad & Lumber Mill

Central California Traction Co. changed its road channel from 160.335 to 160.305 in mid-1982. Southern Pacific's car department at Roseville, Calif. is now using 160.335.

Central California Traction	160.305	Road
	161.415	Trains to Dispatcher
	161.550	Southern Pacific Road

White Pass & Yukon has two radio channels, with base stations at Whitehorse & Carcross, Yukon; Bennett, BC; and Glacier & Skagway, AK. Trains are required to report their arrival and departure times by radio at Cowley, Utah, Inspiration Point, and (southward only) Clifton.

White Pass & Yukon	160.305	Ch 1 Road
	160.425	Ch 2 Yard

We hope you readers will continue to submit articles on different railroad radio systems and frequencies. We do contact various railroads from time to time, but we also need frequencies for certain railroads that we have not been able to obtain. If any of these railroads are in your vicinity, please write and we will attempt to send you FCC or AAR radio frequency data, so you can search out and verify the freqencies and their uses. We will make mention of your contribution unless you request that it be held in confidence.

Some examples of areas where we need your help are as follows:

Name	Frequency Allocations
Archer Daniels Midland, Peoria IL	160.635 MHz
Kyle Railroad, Phillipsburg KS	160.605 MHz
Southern Cal. Rapid Transit, Los Angeles	160.635, 160.935, 160.695
Tacoma Municipal Beltline, WA	160.770 (ex-MILW freq.)
Tradewater Railway, Sturgis TN	160.635 MHz
Illinois Central Gulf, Memphis TN	161.190, 160.335, 160.590, 160.620, 160.650, 160.680, 160.740, 160.785, 160.920, 161.010, 161.100, 160.290, 161.250, 161.280, 161.400, 161.460 MHz
Chesapeake & Ohio, Silver Grove KY	160.785, 160.890, 161.415
Louisville & Nashville, E. St. Louis IL	160.260, 160.875, 160.980, 161.280 MHz
Bessemer & Lake Erie, Conneaut OH	160.215, 160.260, 160.335, 160.500, 160.605, 160.830, 160.920, 160.950, 161.040, 161.220, 161.550 MHz
Houston Belt & Terminal, TX	160.260 PBX input 160.995 PBX output 160.275 Car Dept. input ? Car Dept. output 161.325 & many others

Try listening to these railroads and see if you can find out what their active frequencies are. We look forward to hearing from you.

—Gary & Bill

This column is for the exchange of space communications systems (manned or unmanned), frequency information, orbital data, hobby receiving equipment and antennas. Questions and column input pertaining to Space Communications Monitoring should be sent to:

Larry Van Horn (TN-014),1111 N. Carrier Pkwy., B-107, Grand Prairie, Texas 75050.

Happy New Year to all our RCMA Members and their families from Gayle, Loyd and I. Hope the new year will bring you all that you hope for. Now on with the show...

Big Dummy Award

Last Month after I put the Space Comm column in the mail, I was rereading the piece on Cosmos 1383 and realized to my horror the downlink frequency was short by 1138.5 Mhz. Basically this is the way Cosmos 1383 and the SARSAT program works. It will pick up the Emergency Location Transmitter(ELT) on 121.5 or 243.0 Mhz. and will downlink the signal on 1544.5 Mhz. By use of an accurate satellite ground track(coverage), measurements of doppler and time signal acquisition/loss of the ELT, ground stations can accurately locate the ELT.

The 406 Mhz confusion crept in when it was mentioned that this will be the new allocation for an advanced ELT beacon that will replace the existing beacons on 121.5/243.0 Mhz.With the advanced ELT telemetry information such as the location of a downed aircraft or sinking ship, it's national origin and aircraft/ship registration number will be transmitted to ground stations.

In addition, system coding will inform monitors if a ship is on fire or disabled and whether medical help is required so that appropriate rescue equipment can be dispatched to the scene of the accident.

The first US satellite in the joint SARSAT program to piggyback a transponder will be NOAA-E to be launched in early 1983. I will have more details in the near future in the mean time sorry for the confusion. Just a major problem of pen vs brain coordination.

Satellite Recieving Gear

Rich Kramer might have an interesting answer to the satellite recieving gear problems. The following information is from a spec sheet from G & G Radio Electronics Co. Address is 45-47 Warren Street, New York, NY 10007.

The receiver is an AM mod model AN/APR-4Y which uses tuning units to reveive various frequency ranges. The receiver consist of the amplifier, detector, video, and power supply which operates from 80-115 VAC at any frequency from 60-2600 cps. The tuning units are powered from the receiver. The receiver can be modified for FM operation.

The tuning units come mounted in a shockproof case and are removed from the case and plugged into the receiver. The tuning units may be used seperately with any reveiver having a 30 Mhz. IF, or can be used as an RF unit around which a receiver may be built. Five seperate tuning units cover the frequency range of 38-4,000 Mhz. Calibration accuracy is 1%. The receiver has the following specs:

Video out: 1.5V at 70 ohms
Audio out: 100Mw into 600 ohms
Sensitivity: 35-50Mv
Selectivity: 4Mhz wide/600 Khz narrow

The same company also has available an AN/APR-1 receiver similiar to the APR-4Y. The major difference is the frequency range is limited to 40-1000 Mhz.

Many thanks to Rich for the information on these two units. On paper the only two draw backs is the selectivity/sensitivity specs. These two units however would lend themselves to experimentation and with price range under$75.00 one could afford to try these out.

Next month I hope to review and have information on a new satellite receiver designed for GOES weather satellite use on 1691 Mhz. Cost is below the $200.00 range. GOES weather satellite transmit the weather satellite pictures you see on the evening news/weather programs. This could prove to be another interesting breakthru for the experimenter. Stay tuned....

That's it for this month. CU all in 30. 73s KA5PAE/WDX5EMW.

VHF Marine

Send information, articles, frequencies and their use, and questions that relate to private, commercial, and Coast Guard VHF maritime and inland waterways radio communications to:

Emmett L. Baxter, Jr., 424 W. 22nd St., Norfolk, VA 23517

Greetings to all of you VHF Marine people out there. I hope that all of you will have a Happy New Year.

This month I have received lots of information. I will start out with a report from the Michigan/Ontario area , from Bruce (Can-019).

156.400 S	**Ch. 8 U.S. Steel**	**156.625 S**	**Channel 12**
156.375 C	**Supply Boat**	**156.600 C**	**Soo River Control**

156.725 S	Channel 14	156.800	Calling & Distress
156.700 C	Soo Lockmaster	157.050	Ch.21A-CG Working
157.100	Ch.22A USCG working to Civilians	157.300 S 161.950 C	Ch. 26,Cdn. Weather
161.650	Marine Weather	161.775	Marine Weather
162.550	WX-1 (U.S.)		

Also in regards to our Great Lakes area I have the following information from the Federal Register concerning "Emergency Position Indicating Radiobeacons" (Proposed Rules)

This proposal would require that small passenger vessels on the Great Lakes,and Lifeboats and Liferafts on other inspected Great Lakes vessels as well as certain coastwise vessels operating on the Great Lakes,be equipped with Emergency Position Indicating Radiobeacons. The purpose of these beacons is to provide a radio signal that will alert potential rescurers to a casualty and will provide a beacon to assist in locating the casualty. The need for this action aries from several Great Lakes vessel casualties in which such a beacon would probably have prevented some loss of life.

These beacons would work on VHF Marine Channel 16 & 15 and flip--flop back and forth between the two channels.The main purpose is to use channel 16 to alert the Coast Guard to a diaster and then to use Channel 15 as a beacon, so the Coast Guard could home in on the diaster,thus saving time and life.

In another report in the Federal Register, The Coast Guard proposed that all lifeboats on new and existing Great Lakes vessels be of the totally enclosed type. This is to prevent exposure in the cold months.

Anyone desiring the full reprint of these articles just send me your request and I will see that you get a photocopy.

Also from Elmer(RI-018) I have the following indormation on the Coast Guard Marine Radio Setup in the First Coast Guard District which encompasses Maine,Rhode Island,Vermont,Mass.,& New Hampshire.

USCG Working Channels:	Group Woods Hole	Ch. 21	157.050 Mhz.
	Group Boston	Ch. 81	157.075 Mhz.
	Group Portland	Ch. 23	157.150 Mhz.
	Group Southwest Harbor	Ch. 83	157.175 Mhz.

U.S. COAST GUARD VHF-FM MARINE RADIO SYSTEM

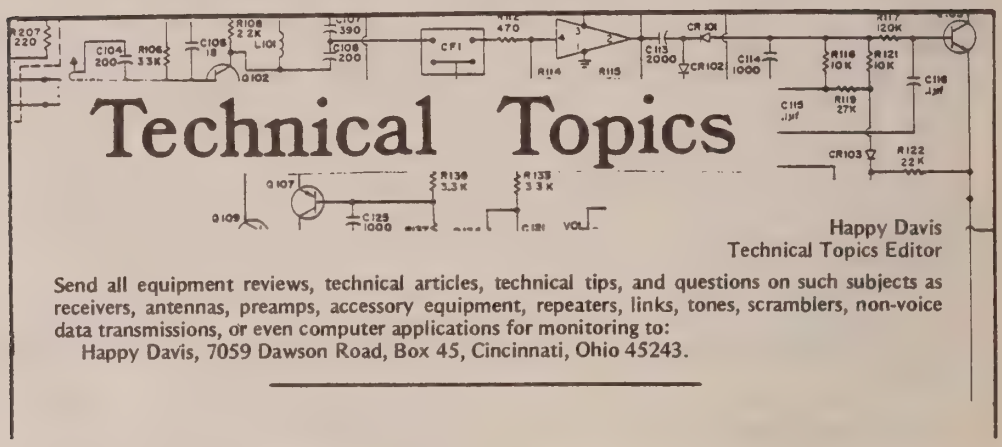
Coast Guard District 1:	Antenna Site	Height
Jonesport Station (Remote)	Quoddy Head	300'
Group Southwest Harbor RS	Mt. Cadillac	1582'
Rockland Station (Remote)	Ragged Mt.Camden	1340'
Group Portland (Remote) (alternate Control Boothbay)	Brunswick	552'
Group Portland (Remote) (alternate Control Portsmouth)	Mt.Agamenticus (York)	692'
Burlington Light Station(Vermont)	Mt. Mansfield	4100'
Group Woods Hole	Nobska Point	150'
Group Woods Hole (Alternate Control Castle Hill)	Newport Bridge	400'
Provincetown Station (Remote)	Pilgrim Monument	400'
Chatham Station	Chatham Station	?
Brant Point Station (Remote)	Nantucket Airport Tower	350'
Gloucester Station	Gloucester,Eastern Point	150'
Menemsha Station	Menemsha Station	170'
Merrimac River Station (Remote)	Newburyport	125'
Group Boston	State St. Bank,Boston	620'

Instead of each Coast Guard Station guarding their radios at all times,the Coast Guard has installed antennas at various locations and monitor the antennas at one primary station for each group of antennas. This has been done because of manpower and it gives just as good a coverage or better than before. The other stations can still communicate with boats in their areas as needed.

I would like to thank Irene(CALA-107) for her nice note. I still need lots of information to keep this column going. Please everyone lets sit down and send me some information to share with our other members. Any information will do; large or small.

I would like for all VHF Marine readers to write in and lets open some lines of communications for each others benefits. I will answer all letters. Also if you need frequencies for your area drop me a line and I will try to supply any marine frequency that you need.

73's till next month



Technical Topics

Happy Davis
Technical Topics Editor

Send all equipment reviews, technical articles, technical tips, and questions on such subjects as receivers, antennas, preamps, accessory equipment, repeaters, links, tones, scramblers, non-voice data transmissions, or even computer applications for monitoring to:
Happy Davis, 7059 Dawson Road, Box 45, Cincinnati, Ohio 45243.

The following material was sent anonymously to the Technical Topics column -
Editor

Subject: Recording from a scanner.

For those who can't listen to their radios for 25 hours a day, there is a way of recording from the new types of scanners. Bearcat and radio shack, that have a automatic feature that when a transmission is received from uour radio it turns on your tape machine and at the completion of a broadcast, shuts off. Well, you are going to say, well probably he hasn't read the owners manual, well I have. The way if shows, it gives a hum in the recording. This problem is probably an impedence miss match between the radio and the tape player inputs and outputs. This can be remedied by using a set of suction cup microphones used in taping on the telephone, such as a Radio Shack #44533 priced at$1.99. This method has two ways of being used. First as a silent recording during the night and as a day time operations with full audio from the speaker. If you tape both microphones together suction cup to cup and place one of the plugs into the radios tape monitor jack and the other into the microphone input of the tape, it will sound very good. If you want a silent recording say, such as, a surveilance all night, plug it into the extention speaker jack and it will not disturg you or your wife's sleep. Well, that covers the audio. Now the tape player has a small miniture size jack maked remote. This turns on and off the tape machine. This will go to the auiiliary terminels of your radio. A word of caution to be noted, the center of the jack for the radio should be connected to the center terminal on the radio plug. The outside of the wire for the plug is considered a ground and should be connected to ground on radio terminal next to the auxiliary. See diagram. It workd cery well. I have used it for about 2 years and get very good recordings. Well, good and happy monitoring.

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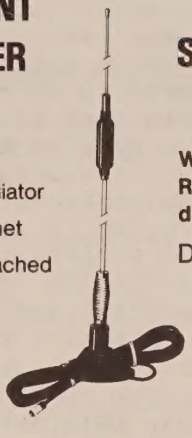

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CALA514		SIMPSON, JOHN W;29045 GLADIOLUS RD;CANYON COUNTRY, CA 91351
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CAOR249		LANGIN, ROBERT;20645 SANTIAGO CNY RD;ORANGE, CA 92669
CAOR250		MADRACKI, THOMAS J;1260 NEWCASTLE LN;FULLERTON, CA 92633
CAOR251		APPEL, WAYNE F;16681 LUCIA LANE;HUNTINGTON BCH, CA 92647
CASC038		COSTIGAN, JOHN;989 TWINBROOK DR;SAN JOSE, CA 95126
CASC039		BRADY, MICHAEL;3375 HOMESTEAD RD -24;SANTA CLARA, CA 95051
CASD056		EPSTER, ROBERT M;4668 VAN DYKE AVE;SAN DIEGO, CA 92116
CASM025		MATSON, DAVID;350 SHARON PARK DR N-312;MENLO PARK, CA 94025
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MA	131	FONTAINE, DON;56 GARLAND ST;SPRINGFIELD, MA 01118
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NY	244	MITCHELL, JOHN J;RT 2 BOX 515;CAIRO, NY 12413
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TX	125	HUGHES, WALTER D;9325 SHEPHERD;BEAUMONT, TX 77707
VA	071	UNDERWOOD, ROBERT;RT 4 309 COMMANCHE LN;GLEN ALLEN, VA 23060
WA	042	TIGHE, MICHAEL;4301 LAKE WASHINGTON BLVD;KIRKLAND, WA 98033
WA	043	WASTRADOWSP.O. BOX 1131;ABERDEEN, WA 98520
WA	044	TIGHE, MICHAEL;4301 LAKE WASHINGTON BLVD APT 1210; KIRKLAND, WA 98033

LETTERS

The R.C.M.A. Board is taking this opportunity to answer the many letters of inquiry we have had on the following topics.

MEMBERSHIP CARDS AND BADGES

The R.C.M.A. has no badges, decals, or membership cards for sale or distribution. The label on your newsletter is your membership card. Other clubs may have several gimmics or commercial good deals. Our good deal is the newsletter, which you as members get to write.

MEMBERSHIP RENEWAL DATE

The date printed by your membership number on your label shows the last month of your current membership. You should renew by this date to insure continuous reception of the newsletter.

Several misunderstandings have occurred due to the fact the newsletter we mail this month is carrying a cover date of next month. The advanced date is used to allow USPS to deliver your newsletter to you on time. Your letter is mailed approximately four days after the monthly board meetings.

PRORATED MEMBERSHIPS

To save postage and other complications, if your original membership application was not accompanied by the correct amount. You received a prorated membership label of less than 12 months. Please do not send in the extra amount to finish the year, just renew when your prorated date comes up.

SPECIAL FREQUENCY REQUESTS

Contact your local R.C.M.A. group for frequencies in your area or use the contact column of the newsletter. We are not yet set up for a national distribution of frequencies. We have discussed this possibility, but the current logistics of the newsletter has stopped us. Ultimately the big picture would include copies of the F.C.C. and I.R.A.C. data bases, a fast computer, and software to select and sort in any order. e.g. Frequencies along route 66 from Chicago to Tulsa in order of the cities passed. Should anyone want to bluesky on this announce your intentions in the Contact Column. We will get there. The Auto Club can plan a road trip, we should be able to give you a frequency map someday....

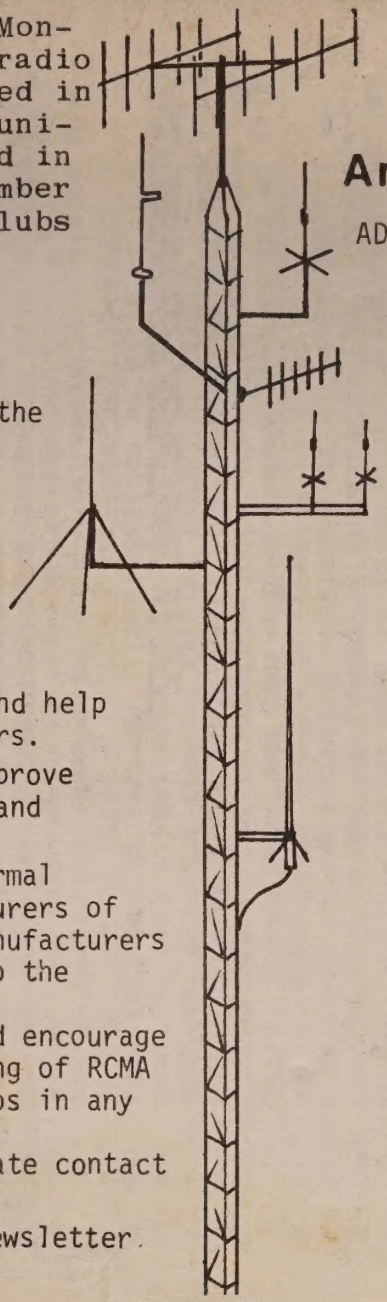
MATERIAL FOR EDITORS

Please send frequency reports and comments directly to the appropriate editor. Until we get the big data base system, the use of a central distribution P.O. Box for everything has lots of delays.

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications. RCMA was founded in May 1975 and is a Full Member of North American Radio Clubs (ANARC).

The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.



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